

Day-Brite



by Signify

IES INDOOR REPORT
PHOTOMETRIC FILENAME : RBX20L840-ARR16SL.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] FO36189.PSO
[TESTLAB] DAY-BRITE PHOTOMETRIC LABORATORY
[ISSUE DATE] 4/4/16
[MANUFAC] SIGNIFY DAY-BRITE - CFI
[LUMCAT] RBX20L840-UNV-WT-ARR16SL
[LUMINAIRE] RBX 16"
[MORE] FROSTED ACRYLIC OPEN HIGHBAY 4-DLS3 2015 4000K BOARDS 2-95W DRIVERS 2.94K RESISTORS
[LAMP] LED. LUMINAIRE OUTPUT = 20868 LUMENS
[TESTDATE] 4/4/16
[_LM79] Absolute Photometry tested in accordance with IES procedure LM79-08

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	20868
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	131
Total Luminaire Watts	158.8
Ballast Factor	1.00
CIE Type	Semi-Direct
Spacing Criterion (0-180)	1.30
Spacing Criterion (90-270)	1.30
Spacing Criterion (Diagonal)	1.22
Basic Luminous Shape	Circular w/ Sides
Luminous Length (0-180)	1.33 ft (Diameter)
Luminous Width (90-270)	1.33 ft (Diameter)
Luminous Height	0.75 ft



LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	24391	24391	24391
55	10601	10601	10601
65	7876	7876	7876
75	6043	6043	6043
85	4613	4613	4613

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CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>	<u>112.5</u>	<u>135.0</u>	<u>157.5</u>	<u>180.0</u>	<u>202.5</u>
0.0	8822.7	8822.7	8822.7	8822.7	8822.7	8822.7	8822.7	8822.7	8822.7	8822.7
2.5	8843.2	8843.2	8843.2	8843.2	8843.2	8843.2	8843.2	8843.2	8843.2	8843.2
5.0	8900.9	8900.9	8900.9	8900.9	8900.9	8900.9	8900.9	8900.9	8900.9	8900.9
7.5	8976.2	8976.2	8976.2	8976.2	8976.2	8976.2	8976.2	8976.2	8976.2	8976.2
10.0	9046.2	9046.2	9046.2	9046.2	9046.2	9046.2	9046.2	9046.2	9046.2	9046.2
12.5	9084.2	9084.2	9084.2	9084.2	9084.2	9084.2	9084.2	9084.2	9084.2	9084.2
15.0	9083.9	9083.9	9083.9	9083.9	9083.9	9083.9	9083.9	9083.9	9083.9	9083.9
17.5	9038.2	9038.2	9038.2	9038.2	9038.2	9038.2	9038.2	9038.2	9038.2	9038.2
20.0	8948.6	8948.6	8948.6	8948.6	8948.6	8948.6	8948.6	8948.6	8948.6	8948.6
22.5	8823.7	8823.7	8823.7	8823.7	8823.7	8823.7	8823.7	8823.7	8823.7	8823.7
25.0	8651.3	8651.3	8651.3	8651.3	8651.3	8651.3	8651.3	8651.3	8651.3	8651.3
27.5	8396.8	8396.8	8396.8	8396.8	8396.8	8396.8	8396.8	8396.8	8396.8	8396.8
30.0	8015.4	8015.4	8015.4	8015.4	8015.4	8015.4	8015.4	8015.4	8015.4	8015.4
32.5	7475.5	7475.5	7475.5	7475.5	7475.5	7475.5	7475.5	7475.5	7475.5	7475.5
35.0	6768.6	6768.6	6768.6	6768.6	6768.6	6768.6	6768.6	6768.6	6768.6	6768.6
37.5	5959.6	5959.6	5959.6	5959.6	5959.6	5959.6	5959.6	5959.6	5959.6	5959.6
40.0	5141.0	5141.0	5141.0	5141.0	5141.0	5141.0	5141.0	5141.0	5141.0	5141.0
42.5	4438.2	4438.2	4438.2	4438.2	4438.2	4438.2	4438.2	4438.2	4438.2	4438.2
45.0	3828.0	3828.0	3828.0	3828.0	3828.0	3828.0	3828.0	3828.0	3828.0	3828.0
47.5	3240.9	3240.9	3240.9	3240.9	3240.9	3240.9	3240.9	3240.9	3240.9	3240.9
50.0	2638.0	2638.0	2638.0	2638.0	2638.0	2638.0	2638.0	2638.0	2638.0	2638.0
52.5	2033.9	2033.9	2033.9	2033.9	2033.9	2033.9	2033.9	2033.9	2033.9	2033.9
55.0	1591.1	1591.1	1591.1	1591.1	1591.1	1591.1	1591.1	1591.1	1591.1	1591.1
57.5	1373.7	1373.7	1373.7	1373.7	1373.7	1373.7	1373.7	1373.7	1373.7	1373.7
60.0	1277.8	1277.8	1277.8	1277.8	1277.8	1277.8	1277.8	1277.8	1277.8	1277.8
62.5	1188.3	1188.3	1188.3	1188.3	1188.3	1188.3	1188.3	1188.3	1188.3	1188.3
65.0	1092.1	1092.1	1092.1	1092.1	1092.1	1092.1	1092.1	1092.1	1092.1	1092.1
67.5	997.3	997.3	997.3	997.3	997.3	997.3	997.3	997.3	997.3	997.3
70.0	907.5	907.5	907.5	907.5	907.5	907.5	907.5	907.5	907.5	907.5
72.5	823.1	823.1	823.1	823.1	823.1	823.1	823.1	823.1	823.1	823.1
75.0	743.5	743.5	743.5	743.5	743.5	743.5	743.5	743.5	743.5	743.5
77.5	668.4	668.4	668.4	668.4	668.4	668.4	668.4	668.4	668.4	668.4
80.0	599.0	599.0	599.0	599.0	599.0	599.0	599.0	599.0	599.0	599.0
82.5	535.7	535.7	535.7	535.7	535.7	535.7	535.7	535.7	535.7	535.7
85.0	478.2	478.2	478.2	478.2	478.2	478.2	478.2	478.2	478.2	478.2
87.5	428.3	428.3	428.3	428.3	428.3	428.3	428.3	428.3	428.3	428.3
90.0	400.1	400.1	400.1	400.1	400.1	400.1	400.1	400.1	400.1	400.1
92.5	396.4	396.4	396.4	396.4	396.4	396.4	396.4	396.4	396.4	396.4
95.0	404.3	404.3	404.3	404.3	404.3	404.3	404.3	404.3	404.3	404.3
97.5	411.6	411.6	411.6	411.6	411.6	411.6	411.6	411.6	411.6	411.6
100.0	417.8	417.8	417.8	417.8	417.8	417.8	417.8	417.8	417.8	417.8
102.5	423.1	423.1	423.1	423.1	423.1	423.1	423.1	423.1	423.1	423.1
105.0	427.4	427.4	427.4	427.4	427.4	427.4	427.4	427.4	427.4	427.4
107.5	430.4	430.4	430.4	430.4	430.4	430.4	430.4	430.4	430.4	430.4
110.0	432.2	432.2	432.2	432.2	432.2	432.2	432.2	432.2	432.2	432.2
112.5	433.2	433.2	433.2	433.2	433.2	433.2	433.2	433.2	433.2	433.2
115.0	433.3	433.3	433.3	433.3	433.3	433.3	433.3	433.3	433.3	433.3
117.5	432.6	432.6	432.6	432.6	432.6	432.6	432.6	432.6	432.6	432.6
120.0	430.7	430.7	430.7	430.7	430.7	430.7	430.7	430.7	430.7	430.7
122.5	427.5	427.5	427.5	427.5	427.5	427.5	427.5	427.5	427.5	427.5
125.0	422.8	422.8	422.8	422.8	422.8	422.8	422.8	422.8	422.8	422.8
127.5	416.9	416.9	416.9	416.9	416.9	416.9	416.9	416.9	416.9	416.9
130.0	410.3	410.3	410.3	410.3	410.3	410.3	410.3	410.3	410.3	410.3
132.5	402.7	402.7	402.7	402.7	402.7	402.7	402.7	402.7	402.7	402.7

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CANDELA TABULATION - (Cont.)

135.0	393.6	393.6	393.6	393.6	393.6	393.6	393.6	393.6	393.6	393.6
137.5	383.0	383.0	383.0	383.0	383.0	383.0	383.0	383.0	383.0	383.0
140.0	371.1	371.1	371.1	371.1	371.1	371.1	371.1	371.1	371.1	371.1
142.5	358.1	358.1	358.1	358.1	358.1	358.1	358.1	358.1	358.1	358.1
145.0	343.8	343.8	343.8	343.8	343.8	343.8	343.8	343.8	343.8	343.8
147.5	328.4	328.4	328.4	328.4	328.4	328.4	328.4	328.4	328.4	328.4
150.0	311.8	311.8	311.8	311.8	311.8	311.8	311.8	311.8	311.8	311.8
152.5	293.9	293.9	293.9	293.9	293.9	293.9	293.9	293.9	293.9	293.9
155.0	274.7	274.7	274.7	274.7	274.7	274.7	274.7	274.7	274.7	274.7
157.5	254.3	254.3	254.3	254.3	254.3	254.3	254.3	254.3	254.3	254.3
160.0	232.5	232.5	232.5	232.5	232.5	232.5	232.5	232.5	232.5	232.5
162.5	209.4	209.4	209.4	209.4	209.4	209.4	209.4	209.4	209.4	209.4
165.0	184.8	184.8	184.8	184.8	184.8	184.8	184.8	184.8	184.8	184.8
167.5	158.8	158.8	158.8	158.8	158.8	158.8	158.8	158.8	158.8	158.8
170.0	130.8	130.8	130.8	130.8	130.8	130.8	130.8	130.8	130.8	130.8
172.5	100.4	100.4	100.4	100.4	100.4	100.4	100.4	100.4	100.4	100.4
175.0	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6
177.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5
180.0	34.6	34.6	34.6	34.6	34.6	34.6	34.6	34.6	34.6	34.6

Vert. Angles **Horizontal Angles**

	<u>225.0</u>	<u>247.5</u>	<u>270.0</u>	<u>292.5</u>	<u>315.0</u>	<u>337.5</u>	<u>360.0</u>
0.0	8822.7	8822.7	8822.7	8822.7	8822.7	8822.7	8822.7
2.5	8843.2	8843.2	8843.2	8843.2	8843.2	8843.2	8843.2
5.0	8900.9	8900.9	8900.9	8900.9	8900.9	8900.9	8900.9
7.5	8976.2	8976.2	8976.2	8976.2	8976.2	8976.2	8976.2
10.0	9046.2	9046.2	9046.2	9046.2	9046.2	9046.2	9046.2
12.5	9084.2	9084.2	9084.2	9084.2	9084.2	9084.2	9084.2
15.0	9083.9	9083.9	9083.9	9083.9	9083.9	9083.9	9083.9
17.5	9038.2	9038.2	9038.2	9038.2	9038.2	9038.2	9038.2
20.0	8948.6	8948.6	8948.6	8948.6	8948.6	8948.6	8948.6
22.5	8823.7	8823.7	8823.7	8823.7	8823.7	8823.7	8823.7
25.0	8651.3	8651.3	8651.3	8651.3	8651.3	8651.3	8651.3
27.5	8396.8	8396.8	8396.8	8396.8	8396.8	8396.8	8396.8
30.0	8015.4	8015.4	8015.4	8015.4	8015.4	8015.4	8015.4
32.5	7475.5	7475.5	7475.5	7475.5	7475.5	7475.5	7475.5
35.0	6768.6	6768.6	6768.6	6768.6	6768.6	6768.6	6768.6
37.5	5959.6	5959.6	5959.6	5959.6	5959.6	5959.6	5959.6
40.0	5141.0	5141.0	5141.0	5141.0	5141.0	5141.0	5141.0
42.5	4438.2	4438.2	4438.2	4438.2	4438.2	4438.2	4438.2
45.0	3828.0	3828.0	3828.0	3828.0	3828.0	3828.0	3828.0
47.5	3240.9	3240.9	3240.9	3240.9	3240.9	3240.9	3240.9
50.0	2638.0	2638.0	2638.0	2638.0	2638.0	2638.0	2638.0
52.5	2033.9	2033.9	2033.9	2033.9	2033.9	2033.9	2033.9
55.0	1591.1	1591.1	1591.1	1591.1	1591.1	1591.1	1591.1
57.5	1373.7	1373.7	1373.7	1373.7	1373.7	1373.7	1373.7
60.0	1277.8	1277.8	1277.8	1277.8	1277.8	1277.8	1277.8
62.5	1188.3	1188.3	1188.3	1188.3	1188.3	1188.3	1188.3
65.0	1092.1	1092.1	1092.1	1092.1	1092.1	1092.1	1092.1
67.5	997.3	997.3	997.3	997.3	997.3	997.3	997.3
70.0	907.5	907.5	907.5	907.5	907.5	907.5	907.5
72.5	823.1	823.1	823.1	823.1	823.1	823.1	823.1
75.0	743.5	743.5	743.5	743.5	743.5	743.5	743.5
77.5	668.4	668.4	668.4	668.4	668.4	668.4	668.4
80.0	599.0	599.0	599.0	599.0	599.0	599.0	599.0

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CANDELA TABULATION - (Cont.)

82.5	535.7	535.7	535.7	535.7	535.7	535.7	535.7
85.0	478.2	478.2	478.2	478.2	478.2	478.2	478.2
87.5	428.3	428.3	428.3	428.3	428.3	428.3	428.3
90.0	400.1	400.1	400.1	400.1	400.1	400.1	400.1
92.5	396.4	396.4	396.4	396.4	396.4	396.4	396.4
95.0	404.3	404.3	404.3	404.3	404.3	404.3	404.3
97.5	411.6	411.6	411.6	411.6	411.6	411.6	411.6
100.0	417.8	417.8	417.8	417.8	417.8	417.8	417.8
102.5	423.1	423.1	423.1	423.1	423.1	423.1	423.1
105.0	427.4	427.4	427.4	427.4	427.4	427.4	427.4
107.5	430.4	430.4	430.4	430.4	430.4	430.4	430.4
110.0	432.2	432.2	432.2	432.2	432.2	432.2	432.2
112.5	433.2	433.2	433.2	433.2	433.2	433.2	433.2
115.0	433.3	433.3	433.3	433.3	433.3	433.3	433.3
117.5	432.6	432.6	432.6	432.6	432.6	432.6	432.6
120.0	430.7	430.7	430.7	430.7	430.7	430.7	430.7
122.5	427.5	427.5	427.5	427.5	427.5	427.5	427.5
125.0	422.8	422.8	422.8	422.8	422.8	422.8	422.8
127.5	416.9	416.9	416.9	416.9	416.9	416.9	416.9
130.0	410.3	410.3	410.3	410.3	410.3	410.3	410.3
132.5	402.7	402.7	402.7	402.7	402.7	402.7	402.7
135.0	393.6	393.6	393.6	393.6	393.6	393.6	393.6
137.5	383.0	383.0	383.0	383.0	383.0	383.0	383.0
140.0	371.1	371.1	371.1	371.1	371.1	371.1	371.1
142.5	358.1	358.1	358.1	358.1	358.1	358.1	358.1
145.0	343.8	343.8	343.8	343.8	343.8	343.8	343.8
147.5	328.4	328.4	328.4	328.4	328.4	328.4	328.4
150.0	311.8	311.8	311.8	311.8	311.8	311.8	311.8
152.5	293.9	293.9	293.9	293.9	293.9	293.9	293.9
155.0	274.7	274.7	274.7	274.7	274.7	274.7	274.7
157.5	254.3	254.3	254.3	254.3	254.3	254.3	254.3
160.0	232.5	232.5	232.5	232.5	232.5	232.5	232.5
162.5	209.4	209.4	209.4	209.4	209.4	209.4	209.4
165.0	184.8	184.8	184.8	184.8	184.8	184.8	184.8
167.5	158.8	158.8	158.8	158.8	158.8	158.8	158.8
170.0	130.8	130.8	130.8	130.8	130.8	130.8	130.8
172.5	100.4	100.4	100.4	100.4	100.4	100.4	100.4
175.0	69.6	69.6	69.6	69.6	69.6	69.6	69.6
177.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5
180.0	34.6	34.6	34.6	34.6	34.6	34.6	34.6

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	3418.71	N.A.	16.40
0-30	7381.81	N.A.	35.40
0-40	11551.98	N.A.	55.40
0-60	16055.63	N.A.	76.90
0-80	17926.91	N.A.	85.90
0-90	18456.29	N.A.	88.40
10-90	17601.84	N.A.	84.30
20-40	8133.27	N.A.	39.00
20-50	11088.23	N.A.	53.10
40-70	5585.81	N.A.	26.80
60-80	1871.28	N.A.	9.00
70-80	789.13	N.A.	3.80
80-90	529.37	N.A.	2.50
90-110	893.31	N.A.	4.30
90-120	1322.76	N.A.	6.30
90-130	1701.47	N.A.	8.20
90-150	2222.02	N.A.	10.60
90-180	2411.95	N.A.	11.60
110-180	1518.64	N.A.	7.30
0-180	20868.24	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	854.44
10-20	2564.27
20-30	3963.1
30-40	4170.17
40-50	2954.96
50-60	1548.7
60-70	1082.15
70-80	789.13
80-90	529.37
90-100	442.19
100-110	451.12
110-120	429.45
120-130	378.71
130-140	304.39
140-150	216.16
150-160	127.79
160-170	53.53
170-180	8.62

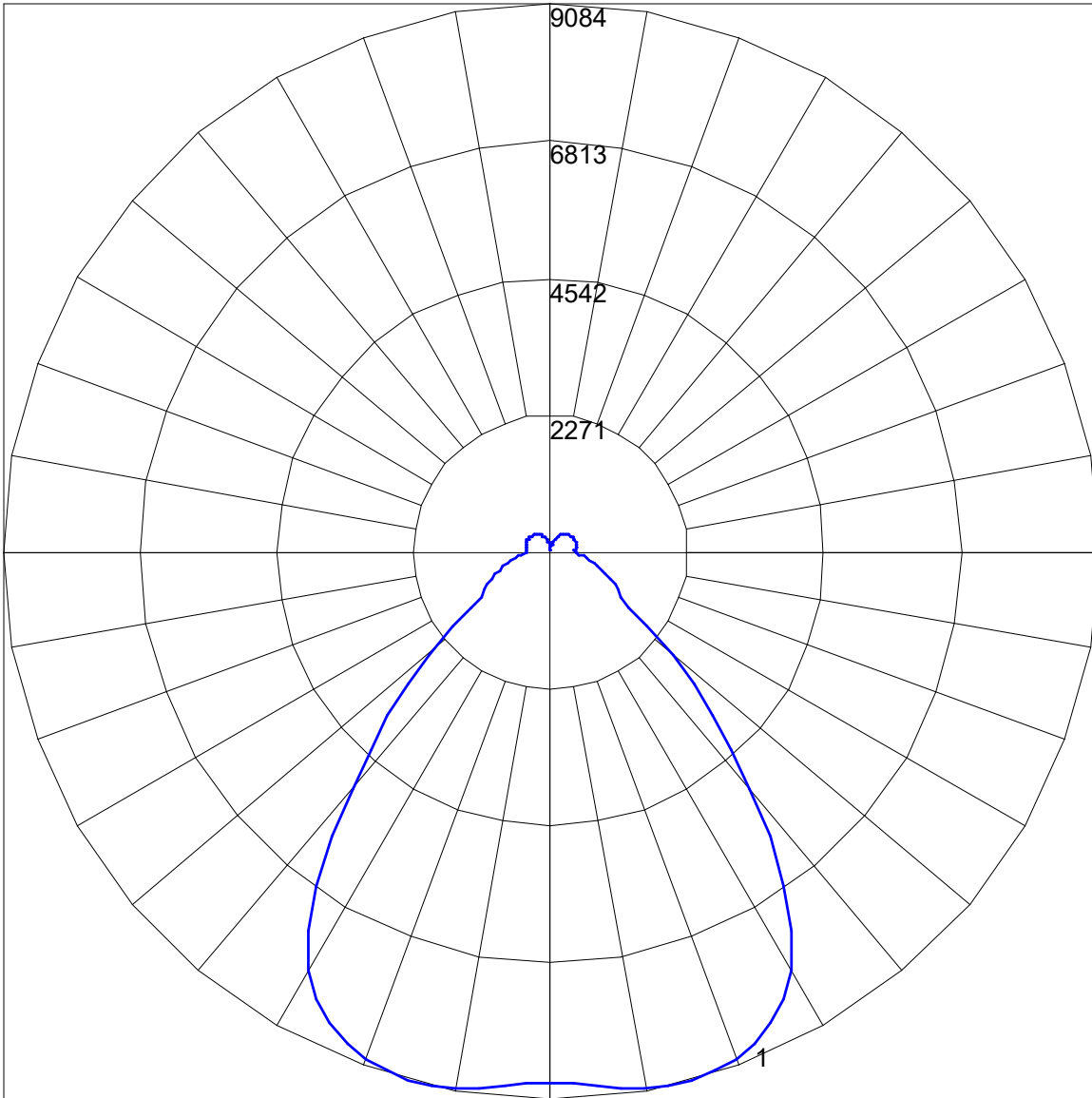
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

RC RW	80				70				50			30			10			0
	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	116	116	116	116	112	112	112	112	105	105	105	98	98	98	91	91	91	88
1	107	103	99	96	103	100	96	93	93	91	88	88	85	83	82	81	79	76
2	99	92	86	81	95	89	84	79	84	79	76	79	75	72	74	72	69	66
3	92	82	75	70	88	80	74	68	76	70	66	71	67	63	68	64	61	58
4	85	74	67	61	82	72	65	60	69	63	58	65	60	56	62	58	54	52
5	79	68	60	54	76	66	59	53	63	56	52	59	54	50	57	52	48	46
6	73	62	54	48	71	60	53	47	57	51	46	55	49	45	52	47	44	42
7	69	57	49	43	66	55	48	43	53	46	42	50	45	41	48	43	40	38
8	64	52	44	39	62	51	44	39	49	42	38	47	41	37	45	40	36	34
9	60	48	41	36	58	47	40	35	45	39	34	43	38	34	42	37	33	31
10	57	45	37	33	55	44	37	32	42	36	32	40	35	31	39	34	30	29

POLAR GRAPH



Maximum Candela = 9084.2 Located At Horizontal Angle = 0, Vertical Angle = 12.5
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)