

Day-Brite



by Signify

IES INDOOR REPORT

PHOTOMETRIC FILENAME : RBX20L835-ARR16SL.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] FO36333.PSO
[TESTLAB] DAY-BRITE PHOTOMETRIC LABORATORY
[ISSUE DATE] 4/28/16
[MANUFAC] SIGNIFY DAY-BRITE - CFI
[LUMCAT] RBX20L835-UNV-WT-ARR16SL
[LUMINAIRE] RBX 16"
[MORE] FROSTED ACRYLIC OPEN HIGHBAY 4-DLS3 2015 3500K BOARDS 2-95W DRIVERS 2.94K RESISTORS
[LAMP] LED. LUMINAIRE OUTPUT = 20130 LUMENS
[TESTDATE] 4/28/16
[_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	20130
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	128
Total Luminaire Watts	157.8
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	23386	23386	23386
55	10202	10202	10202
65	7569	7569	7569
75	5815	5815	5815
85	4440	4440	4440

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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	8556.7	8556.7	8556.7	8556.7	8556.7	8556.7	8556.7	8556.7	8556.7	8556.7
2.5	8573.6	8573.6	8573.6	8573.6	8573.6	8573.6	8573.6	8573.6	8573.6	8573.6
5.0	8625.5	8625.5	8625.5	8625.5	8625.5	8625.5	8625.5	8625.5	8625.5	8625.5
7.5	8697.3	8697.3	8697.3	8697.3	8697.3	8697.3	8697.3	8697.3	8697.3	8697.3
10.0	8767.1	8767.1	8767.1	8767.1	8767.1	8767.1	8767.1	8767.1	8767.1	8767.1
12.5	8805.1	8805.1	8805.1	8805.1	8805.1	8805.1	8805.1	8805.1	8805.1	8805.1
15.0	8805.6	8805.6	8805.6	8805.6	8805.6	8805.6	8805.6	8805.6	8805.6	8805.6
17.5	8758.7	8758.7	8758.7	8758.7	8758.7	8758.7	8758.7	8758.7	8758.7	8758.7
20.0	8670.5	8670.5	8670.5	8670.5	8670.5	8670.5	8670.5	8670.5	8670.5	8670.5
22.5	8541.7	8541.7	8541.7	8541.7	8541.7	8541.7	8541.7	8541.7	8541.7	8541.7
25.0	8363.3	8363.3	8363.3	8363.3	8363.3	8363.3	8363.3	8363.3	8363.3	8363.3
27.5	8103.7	8103.7	8103.7	8103.7	8103.7	8103.7	8103.7	8103.7	8103.7	8103.7
30.0	7724.3	7724.3	7724.3	7724.3	7724.3	7724.3	7724.3	7724.3	7724.3	7724.3
32.5	7198.8	7198.8	7198.8	7198.8	7198.8	7198.8	7198.8	7198.8	7198.8	7198.8
35.0	6528.2	6528.2	6528.2	6528.2	6528.2	6528.2	6528.2	6528.2	6528.2	6528.2
37.5	5741.5	5741.5	5741.5	5741.5	5741.5	5741.5	5741.5	5741.5	5741.5	5741.5
40.0	4968.8	4968.8	4968.8	4968.8	4968.8	4968.8	4968.8	4968.8	4968.8	4968.8
42.5	4280.6	4280.6	4280.6	4280.6	4280.6	4280.6	4280.6	4280.6	4280.6	4280.6
45.0	3670.2	3670.2	3670.2	3670.2	3670.2	3670.2	3670.2	3670.2	3670.2	3670.2
47.5	3102.2	3102.2	3102.2	3102.2	3102.2	3102.2	3102.2	3102.2	3102.2	3102.2
50.0	2541.9	2541.9	2541.9	2541.9	2541.9	2541.9	2541.9	2541.9	2541.9	2541.9
52.5	1975.8	1975.8	1975.8	1975.8	1975.8	1975.8	1975.8	1975.8	1975.8	1975.8
55.0	1531.1	1531.1	1531.1	1531.1	1531.1	1531.1	1531.1	1531.1	1531.1	1531.1
57.5	1319.7	1319.7	1319.7	1319.7	1319.7	1319.7	1319.7	1319.7	1319.7	1319.7
60.0	1228.3	1228.3	1228.3	1228.3	1228.3	1228.3	1228.3	1228.3	1228.3	1228.3
62.5	1142.3	1142.3	1142.3	1142.3	1142.3	1142.3	1142.3	1142.3	1142.3	1142.3
65.0	1049.6	1049.6	1049.6	1049.6	1049.6	1049.6	1049.6	1049.6	1049.6	1049.6
67.5	958.2	958.2	958.2	958.2	958.2	958.2	958.2	958.2	958.2	958.2
70.0	872.2	872.2	872.2	872.2	872.2	872.2	872.2	872.2	872.2	872.2
72.5	791.6	791.6	791.6	791.6	791.6	791.6	791.6	791.6	791.6	791.6
75.0	715.4	715.4	715.4	715.4	715.4	715.4	715.4	715.4	715.4	715.4
77.5	643.3	643.3	643.3	643.3	643.3	643.3	643.3	643.3	643.3	643.3
80.0	576.5	576.5	576.5	576.5	576.5	576.5	576.5	576.5	576.5	576.5
82.5	515.7	515.7	515.7	515.7	515.7	515.7	515.7	515.7	515.7	515.7
85.0	460.3	460.3	460.3	460.3	460.3	460.3	460.3	460.3	460.3	460.3
87.5	412.9	412.9	412.9	412.9	412.9	412.9	412.9	412.9	412.9	412.9
90.0	384.7	384.7	384.7	384.7	384.7	384.7	384.7	384.7	384.7	384.7
92.5	383.1	383.1	383.1	383.1	383.1	383.1	383.1	383.1	383.1	383.1
95.0	390.3	390.3	390.3	390.3	390.3	390.3	390.3	390.3	390.3	390.3
97.5	397.2	397.2	397.2	397.2	397.2	397.2	397.2	397.2	397.2	397.2
100.0	403.1	403.1	403.1	403.1	403.1	403.1	403.1	403.1	403.1	403.1
102.5	408.2	408.2	408.2	408.2	408.2	408.2	408.2	408.2	408.2	408.2
105.0	412.0	412.0	412.0	412.0	412.0	412.0	412.0	412.0	412.0	412.0
107.5	414.9	414.9	414.9	414.9	414.9	414.9	414.9	414.9	414.9	414.9
110.0	416.6	416.6	416.6	416.6	416.6	416.6	416.6	416.6	416.6	416.6
112.5	417.3	417.3	417.3	417.3	417.3	417.3	417.3	417.3	417.3	417.3
115.0	417.2	417.2	417.2	417.2	417.2	417.2	417.2	417.2	417.2	417.2
117.5	416.5	416.5	416.5	416.5	416.5	416.5	416.5	416.5	416.5	416.5
120.0	414.6	414.6	414.6	414.6	414.6	414.6	414.6	414.6	414.6	414.6
122.5	411.3	411.3	411.3	411.3	411.3	411.3	411.3	411.3	411.3	411.3
125.0	406.7	406.7	406.7	406.7	406.7	406.7	406.7	406.7	406.7	406.7
127.5	400.9	400.9	400.9	400.9	400.9	400.9	400.9	400.9	400.9	400.9
130.0	394.4	394.4	394.4	394.4	394.4	394.4	394.4	394.4	394.4	394.4
132.5	387.0	387.0	387.0	387.0	387.0	387.0	387.0	387.0	387.0	387.0

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CANDELA TABULATION - (Cont.)

135.0	378.1	378.1	378.1	378.1	378.1	378.1	378.1	378.1	378.1	378.1
137.5	367.9	367.9	367.9	367.9	367.9	367.9	367.9	367.9	367.9	367.9
140.0	356.4	356.4	356.4	356.4	356.4	356.4	356.4	356.4	356.4	356.4
142.5	343.8	343.8	343.8	343.8	343.8	343.8	343.8	343.8	343.8	343.8
145.0	330.0	330.0	330.0	330.0	330.0	330.0	330.0	330.0	330.0	330.0
147.5	315.2	315.2	315.2	315.2	315.2	315.2	315.2	315.2	315.2	315.2
150.0	299.3	299.3	299.3	299.3	299.3	299.3	299.3	299.3	299.3	299.3
152.5	282.1	282.1	282.1	282.1	282.1	282.1	282.1	282.1	282.1	282.1
155.0	263.8	263.8	263.8	263.8	263.8	263.8	263.8	263.8	263.8	263.8
157.5	244.3	244.3	244.3	244.3	244.3	244.3	244.3	244.3	244.3	244.3
160.0	223.3	223.3	223.3	223.3	223.3	223.3	223.3	223.3	223.3	223.3
162.5	201.3	201.3	201.3	201.3	201.3	201.3	201.3	201.3	201.3	201.3
165.0	177.8	177.8	177.8	177.8	177.8	177.8	177.8	177.8	177.8	177.8
167.5	152.8	152.8	152.8	152.8	152.8	152.8	152.8	152.8	152.8	152.8
170.0	125.9	125.9	125.9	125.9	125.9	125.9	125.9	125.9	125.9	125.9
172.5	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8
175.0	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7
177.5	41.9	41.9	41.9	41.9	41.9	41.9	41.9	41.9	41.9	41.9
180.0	31.9	31.9	31.9	31.9	31.9	31.9	31.9	31.9	31.9	31.9

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	8556.7	8556.7	8556.7	8556.7	8556.7	8556.7	8556.7
2.5	8573.6	8573.6	8573.6	8573.6	8573.6	8573.6	8573.6
5.0	8625.5	8625.5	8625.5	8625.5	8625.5	8625.5	8625.5
7.5	8697.3	8697.3	8697.3	8697.3	8697.3	8697.3	8697.3
10.0	8767.1	8767.1	8767.1	8767.1	8767.1	8767.1	8767.1
12.5	8805.1	8805.1	8805.1	8805.1	8805.1	8805.1	8805.1
15.0	8805.6	8805.6	8805.6	8805.6	8805.6	8805.6	8805.6
17.5	8758.7	8758.7	8758.7	8758.7	8758.7	8758.7	8758.7
20.0	8670.5	8670.5	8670.5	8670.5	8670.5	8670.5	8670.5
22.5	8541.7	8541.7	8541.7	8541.7	8541.7	8541.7	8541.7
25.0	8363.3	8363.3	8363.3	8363.3	8363.3	8363.3	8363.3
27.5	8103.7	8103.7	8103.7	8103.7	8103.7	8103.7	8103.7
30.0	7724.3	7724.3	7724.3	7724.3	7724.3	7724.3	7724.3
32.5	7198.8	7198.8	7198.8	7198.8	7198.8	7198.8	7198.8
35.0	6528.2	6528.2	6528.2	6528.2	6528.2	6528.2	6528.2
37.5	5741.5	5741.5	5741.5	5741.5	5741.5	5741.5	5741.5
40.0	4968.8	4968.8	4968.8	4968.8	4968.8	4968.8	4968.8
42.5	4280.6	4280.6	4280.6	4280.6	4280.6	4280.6	4280.6
45.0	3670.2	3670.2	3670.2	3670.2	3670.2	3670.2	3670.2
47.5	3102.2	3102.2	3102.2	3102.2	3102.2	3102.2	3102.2
50.0	2541.9	2541.9	2541.9	2541.9	2541.9	2541.9	2541.9
52.5	1975.8	1975.8	1975.8	1975.8	1975.8	1975.8	1975.8
55.0	1531.1	1531.1	1531.1	1531.1	1531.1	1531.1	1531.1
57.5	1319.7	1319.7	1319.7	1319.7	1319.7	1319.7	1319.7
60.0	1228.3	1228.3	1228.3	1228.3	1228.3	1228.3	1228.3
62.5	1142.3	1142.3	1142.3	1142.3	1142.3	1142.3	1142.3
65.0	1049.6	1049.6	1049.6	1049.6	1049.6	1049.6	1049.6
67.5	958.2	958.2	958.2	958.2	958.2	958.2	958.2
70.0	872.2	872.2	872.2	872.2	872.2	872.2	872.2
72.5	791.6	791.6	791.6	791.6	791.6	791.6	791.6
75.0	715.4	715.4	715.4	715.4	715.4	715.4	715.4
77.5	643.3	643.3	643.3	643.3	643.3	643.3	643.3
80.0	576.5	576.5	576.5	576.5	576.5	576.5	576.5

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CANDELA TABULATION - (Cont.)

82.5	515.7	515.7	515.7	515.7	515.7	515.7	515.7
85.0	460.3	460.3	460.3	460.3	460.3	460.3	460.3
87.5	412.9	412.9	412.9	412.9	412.9	412.9	412.9
90.0	384.7	384.7	384.7	384.7	384.7	384.7	384.7
92.5	383.1	383.1	383.1	383.1	383.1	383.1	383.1
95.0	390.3	390.3	390.3	390.3	390.3	390.3	390.3
97.5	397.2	397.2	397.2	397.2	397.2	397.2	397.2
100.0	403.1	403.1	403.1	403.1	403.1	403.1	403.1
102.5	408.2	408.2	408.2	408.2	408.2	408.2	408.2
105.0	412.0	412.0	412.0	412.0	412.0	412.0	412.0
107.5	414.9	414.9	414.9	414.9	414.9	414.9	414.9
110.0	416.6	416.6	416.6	416.6	416.6	416.6	416.6
112.5	417.3	417.3	417.3	417.3	417.3	417.3	417.3
115.0	417.2	417.2	417.2	417.2	417.2	417.2	417.2
117.5	416.5	416.5	416.5	416.5	416.5	416.5	416.5
120.0	414.6	414.6	414.6	414.6	414.6	414.6	414.6
122.5	411.3	411.3	411.3	411.3	411.3	411.3	411.3
125.0	406.7	406.7	406.7	406.7	406.7	406.7	406.7
127.5	400.9	400.9	400.9	400.9	400.9	400.9	400.9
130.0	394.4	394.4	394.4	394.4	394.4	394.4	394.4
132.5	387.0	387.0	387.0	387.0	387.0	387.0	387.0
135.0	378.1	378.1	378.1	378.1	378.1	378.1	378.1
137.5	367.9	367.9	367.9	367.9	367.9	367.9	367.9
140.0	356.4	356.4	356.4	356.4	356.4	356.4	356.4
142.5	343.8	343.8	343.8	343.8	343.8	343.8	343.8
145.0	330.0	330.0	330.0	330.0	330.0	330.0	330.0
147.5	315.2	315.2	315.2	315.2	315.2	315.2	315.2
150.0	299.3	299.3	299.3	299.3	299.3	299.3	299.3
152.5	282.1	282.1	282.1	282.1	282.1	282.1	282.1
155.0	263.8	263.8	263.8	263.8	263.8	263.8	263.8
157.5	244.3	244.3	244.3	244.3	244.3	244.3	244.3
160.0	223.3	223.3	223.3	223.3	223.3	223.3	223.3
162.5	201.3	201.3	201.3	201.3	201.3	201.3	201.3
165.0	177.8	177.8	177.8	177.8	177.8	177.8	177.8
167.5	152.8	152.8	152.8	152.8	152.8	152.8	152.8
170.0	125.9	125.9	125.9	125.9	125.9	125.9	125.9
172.5	96.8	96.8	96.8	96.8	96.8	96.8	96.8
175.0	66.7	66.7	66.7	66.7	66.7	66.7	66.7
177.5	41.9	41.9	41.9	41.9	41.9	41.9	41.9
180.0	31.9	31.9	31.9	31.9	31.9	31.9	31.9

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	3313.27	N.A.	16.50
0-30	7143.34	N.A.	35.50
0-40	11163.1	N.A.	55.50
0-60	15498.85	N.A.	77.00
0-80	17298.04	N.A.	85.90
0-90	17807.71	N.A.	88.50
10-90	16979.66	N.A.	84.40
20-40	7849.84	N.A.	39.00
20-50	10691.54	N.A.	53.10
40-70	5375.8	N.A.	26.70
60-80	1799.19	N.A.	8.90
70-80	759.13	N.A.	3.80
80-90	509.67	N.A.	2.50
90-110	861.71	N.A.	4.30
90-120	1275.3	N.A.	6.30
90-130	1639.59	N.A.	8.10
90-150	2139.55	N.A.	10.60
90-180	2322.00	N.A.	11.50
110-180	1460.28	N.A.	7.30
0-180	20129.71	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	828.05
10-20	2485.22
20-30	3830.07
30-40	4019.77
40-50	2841.7
50-60	1494.04
60-70	1040.06
70-80	759.13
80-90	509.67
90-100	426.71
100-110	435.00
110-120	413.59
120-130	364.29
130-140	292.45
140-150	207.51
150-160	122.70
160-170	51.47
170-180	8.28

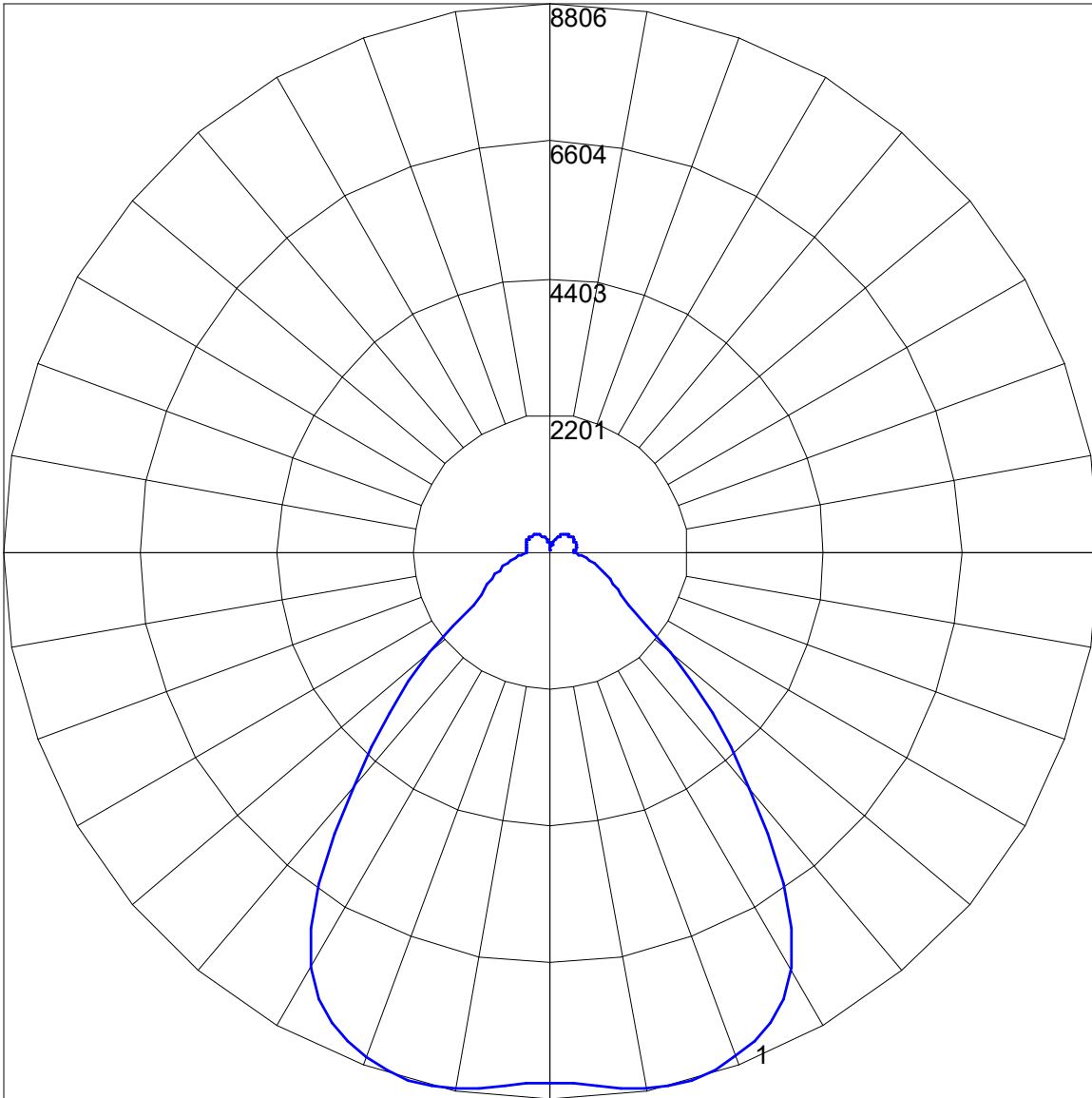
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	96	89	84	79	84	79	76	79	75	72	74	72	69	66
3	92	83	75	70	88	80	74	68	76	70	66	71	67	63	68	64	61	58
4	85	75	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	60	54	50	57	52	49	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	35	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 = 8805.6 Located At Horizontal Angle = 0, Vertical Angle = 15
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)