

Day-Brite



by Signify

IES INDOOR REPORT

PHOTOMETRIC FILENAME : RBX20L840-A22R.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] FO36199.PSO
[TESTLAB] DAY-BRITE PHOTOMETRIC LABORATORY
[ISSUEDATE] 4/5/16
[MANUFAC] SIGNIFY DAY-BRITE - CFI
[LUMCAT] RBX20L840-UNV-WT-A22R
[LUMINAIRE] RBX 22"
[MORE] ALUMINUM OPEN HIGHBAY 4-DLS3 4000K BOARDS 2-95W DRIVERS 2.94K RESISTORS
[LAMP] LED. LUMINAIRE OUTPUT = 16710 LUMENS
[TESTDATE] 4/5/16
[_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	16710
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	105
Total Luminaire Watts	158.6
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.02
Spacing Criterion (90-270)	1.02
Spacing Criterion (Diagonal)	1.02
Basic Luminous Shape	Circular w/ Sides
Luminous Length (0-180)	1.83 ft (Diameter)
Luminous Width (90-270)	1.83 ft (Diameter)
Luminous Height	1.17 ft



LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	7782	7782	7782
55	2153	2153	2153
65	1112	1112	1112
75	491	491	491
85	88	88	88

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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	13871.4	13871.4	13871.4	13871.4	13871.4	13871.4	13871.4	13871.4	13871.4	13871.4
2.5	13846.3	13846.3	13846.3	13846.3	13846.3	13846.3	13846.3	13846.3	13846.3	13846.3
5.0	13766.6	13766.6	13766.6	13766.6	13766.6	13766.6	13766.6	13766.6	13766.6	13766.6
7.5	13625.8	13625.8	13625.8	13625.8	13625.8	13625.8	13625.8	13625.8	13625.8	13625.8
10.0	13409.7	13409.7	13409.7	13409.7	13409.7	13409.7	13409.7	13409.7	13409.7	13409.7
12.5	13101.6	13101.6	13101.6	13101.6	13101.6	13101.6	13101.6	13101.6	13101.6	13101.6
15.0	12694.4	12694.4	12694.4	12694.4	12694.4	12694.4	12694.4	12694.4	12694.4	12694.4
17.5	12175.4	12175.4	12175.4	12175.4	12175.4	12175.4	12175.4	12175.4	12175.4	12175.4
20.0	11556.9	11556.9	11556.9	11556.9	11556.9	11556.9	11556.9	11556.9	11556.9	11556.9
22.5	10876.3	10876.3	10876.3	10876.3	10876.3	10876.3	10876.3	10876.3	10876.3	10876.3
25.0	10187.0	10187.0	10187.0	10187.0	10187.0	10187.0	10187.0	10187.0	10187.0	10187.0
27.5	9534.6	9534.6	9534.6	9534.6	9534.6	9534.6	9534.6	9534.6	9534.6	9534.6
30.0	8865.7	8865.7	8865.7	8865.7	8865.7	8865.7	8865.7	8865.7	8865.7	8865.7
32.5	7968.2	7968.2	7968.2	7968.2	7968.2	7968.2	7968.2	7968.2	7968.2	7968.2
35.0	6783.4	6783.4	6783.4	6783.4	6783.4	6783.4	6783.4	6783.4	6783.4	6783.4
37.5	5523.2	5523.2	5523.2	5523.2	5523.2	5523.2	5523.2	5523.2	5523.2	5523.2
40.0	4412.8	4412.8	4412.8	4412.8	4412.8	4412.8	4412.8	4412.8	4412.8	4412.8
42.5	3439.6	3439.6	3439.6	3439.6	3439.6	3439.6	3439.6	3439.6	3439.6	3439.6
45.0	2441.5	2441.5	2441.5	2441.5	2441.5	2441.5	2441.5	2441.5	2441.5	2441.5
47.5	1524.7	1524.7	1524.7	1524.7	1524.7	1524.7	1524.7	1524.7	1524.7	1524.7
50.0	987.5	987.5	987.5	987.5	987.5	987.5	987.5	987.5	987.5	987.5
52.5	776.4	776.4	776.4	776.4	776.4	776.4	776.4	776.4	776.4	776.4
55.0	653.1	653.1	653.1	653.1	653.1	653.1	653.1	653.1	653.1	653.1
57.5	549.3	549.3	549.3	549.3	549.3	549.3	549.3	549.3	549.3	549.3
60.0	459.7	459.7	459.7	459.7	459.7	459.7	459.7	459.7	459.7	459.7
62.5	382.4	382.4	382.4	382.4	382.4	382.4	382.4	382.4	382.4	382.4
65.0	315.6	315.6	315.6	315.6	315.6	315.6	315.6	315.6	315.6	315.6
67.5	257.5	257.5	257.5	257.5	257.5	257.5	257.5	257.5	257.5	257.5
70.0	207.1	207.1	207.1	207.1	207.1	207.1	207.1	207.1	207.1	207.1
72.5	163.3	163.3	163.3	163.3	163.3	163.3	163.3	163.3	163.3	163.3
75.0	125.5	125.5	125.5	125.5	125.5	125.5	125.5	125.5	125.5	125.5
77.5	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7
80.0	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.4
82.5	40.2	40.2	40.2	40.2	40.2	40.2	40.2	40.2	40.2	40.2
85.0	19.4	19.4	19.4	19.4	19.4	19.4	19.4	19.4	19.4	19.4
87.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
90.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
112.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
117.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
122.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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135.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
155.0	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
157.5	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
160.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
162.5	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
165.0	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
167.5	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7
170.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
172.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
175.0	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9
177.5	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1
180.0	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2

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	13871.4	13871.4	13871.4	13871.4	13871.4	13871.4	13871.4
2.5	13846.3	13846.3	13846.3	13846.3	13846.3	13846.3	13846.3
5.0	13766.6	13766.6	13766.6	13766.6	13766.6	13766.6	13766.6
7.5	13625.8	13625.8	13625.8	13625.8	13625.8	13625.8	13625.8
10.0	13409.7	13409.7	13409.7	13409.7	13409.7	13409.7	13409.7
12.5	13101.6	13101.6	13101.6	13101.6	13101.6	13101.6	13101.6
15.0	12694.4	12694.4	12694.4	12694.4	12694.4	12694.4	12694.4
17.5	12175.4	12175.4	12175.4	12175.4	12175.4	12175.4	12175.4
20.0	11556.9	11556.9	11556.9	11556.9	11556.9	11556.9	11556.9
22.5	10876.3	10876.3	10876.3	10876.3	10876.3	10876.3	10876.3
25.0	10187.0	10187.0	10187.0	10187.0	10187.0	10187.0	10187.0
27.5	9534.6	9534.6	9534.6	9534.6	9534.6	9534.6	9534.6
30.0	8865.7	8865.7	8865.7	8865.7	8865.7	8865.7	8865.7
32.5	7968.2	7968.2	7968.2	7968.2	7968.2	7968.2	7968.2
35.0	6783.4	6783.4	6783.4	6783.4	6783.4	6783.4	6783.4
37.5	5523.2	5523.2	5523.2	5523.2	5523.2	5523.2	5523.2
40.0	4412.8	4412.8	4412.8	4412.8	4412.8	4412.8	4412.8
42.5	3439.6	3439.6	3439.6	3439.6	3439.6	3439.6	3439.6
45.0	2441.5	2441.5	2441.5	2441.5	2441.5	2441.5	2441.5
47.5	1524.7	1524.7	1524.7	1524.7	1524.7	1524.7	1524.7
50.0	987.5	987.5	987.5	987.5	987.5	987.5	987.5
52.5	776.4	776.4	776.4	776.4	776.4	776.4	776.4
55.0	653.1	653.1	653.1	653.1	653.1	653.1	653.1
57.5	549.3	549.3	549.3	549.3	549.3	549.3	549.3
60.0	459.7	459.7	459.7	459.7	459.7	459.7	459.7
62.5	382.4	382.4	382.4	382.4	382.4	382.4	382.4
65.0	315.6	315.6	315.6	315.6	315.6	315.6	315.6
67.5	257.5	257.5	257.5	257.5	257.5	257.5	257.5
70.0	207.1	207.1	207.1	207.1	207.1	207.1	207.1
72.5	163.3	163.3	163.3	163.3	163.3	163.3	163.3
75.0	125.5	125.5	125.5	125.5	125.5	125.5	125.5
77.5	92.7	92.7	92.7	92.7	92.7	92.7	92.7
80.0	64.4	64.4	64.4	64.4	64.4	64.4	64.4

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CANDELA TABULATION - (Cont.)

82.5	40.2	40.2	40.2	40.2	40.2	40.2	40.2
85.0	19.4	19.4	19.4	19.4	19.4	19.4	19.4
87.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
90.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
112.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
117.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
122.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5	0.2	0.2	0.2	0.2	0.2	0.2	0.2
155.0	0.8	0.8	0.8	0.8	0.8	0.8	0.8
157.5	1.4	1.4	1.4	1.4	1.4	1.4	1.4
160.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
162.5	2.7	2.7	2.7	2.7	2.7	2.7	2.7
165.0	3.2	3.2	3.2	3.2	3.2	3.2	3.2
167.5	3.7	3.7	3.7	3.7	3.7	3.7	3.7
170.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
172.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
175.0	4.9	4.9	4.9	4.9	4.9	4.9	4.9
177.5	5.1	5.1	5.1	5.1	5.1	5.1	5.1
180.0	5.2	5.2	5.2	5.2	5.2	5.2	5.2

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	4851.72	N.A.	29.00
0-30	9537.6	N.A.	57.10
0-40	13707.83	N.A.	82.00
0-60	16228.34	N.A.	97.10
0-80	16682.84	N.A.	99.80
0-90	16708.47	N.A.	100.00
10-90	15405.58	N.A.	92.20
20-40	8856.1	N.A.	53.00
20-50	10774.78	N.A.	64.50
40-70	2838.77	N.A.	17.00
60-80	454.50	N.A.	2.70
70-80	136.25	N.A.	0.80
80-90	25.63	N.A.	0.20
90-110	0.00	N.A.	0.00
90-120	0.00	N.A.	0.00
90-130	0.00	N.A.	0.00
90-150	0.00	N.A.	0.00
90-180	1.67	N.A.	0.00
110-180	1.67	N.A.	0.00
0-180	16710.14	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	1302.89
10-20	3548.83
20-30	4685.88
30-40	4170.23
40-50	1918.68
50-60	601.84
60-70	318.25
70-80	136.25
80-90	25.63
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.36
160-170	0.86
170-180	0.44

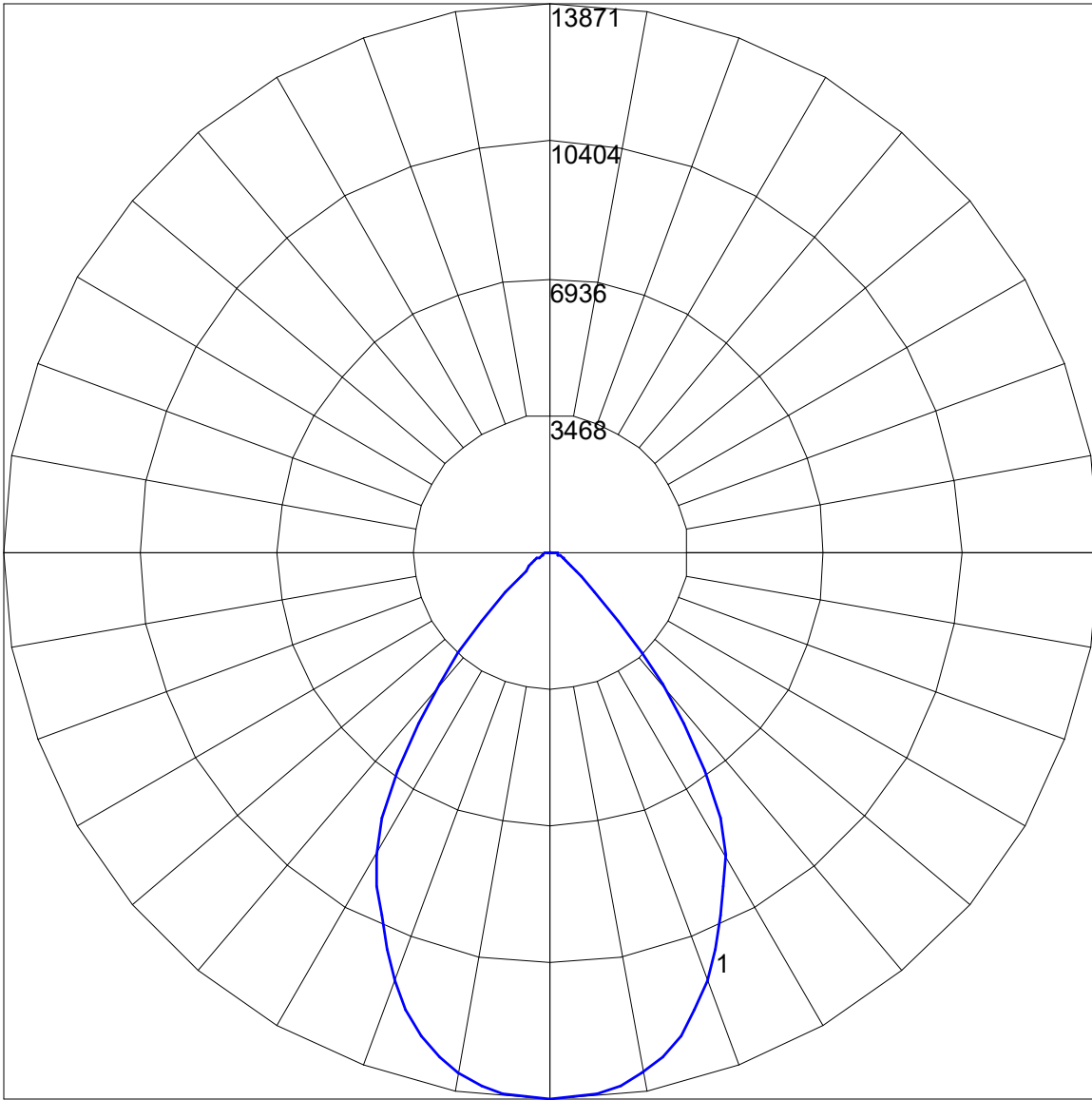
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

RC	80				70				50			30			10			0
	RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	113	110	107	104	110	107	105	103	103	101	99	100	98	96	96	95	94	92
2	106	101	96	92	104	99	95	91	96	92	89	92	90	87	90	87	85	84
3	100	93	87	82	98	91	86	82	88	84	80	86	82	79	84	81	78	76
4	94	85	79	74	92	84	78	74	82	77	73	80	76	72	78	74	71	70
5	88	79	72	68	87	78	72	67	76	71	67	74	70	66	73	69	65	64
6	83	73	67	62	82	73	66	62	71	65	61	69	65	61	68	64	60	59
7	79	68	62	57	77	68	61	57	66	61	56	65	60	56	64	59	56	54
8	74	64	57	52	73	63	57	52	62	56	52	61	56	52	60	55	52	50
9	70	60	53	49	69	59	53	49	58	52	48	57	52	48	56	52	48	47
10	67	56	50	45	66	55	49	45	55	49	45	54	49	45	53	48	45	43

POLAR GRAPH



Maximum Candela = 13871.4 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)