

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: PORTFOLIO

Report Number: P247445

Luminaire Tested: **LSR8B120D010 EC8B120840 8LBS0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247445
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-85)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B120D010 EC8B120840 8LBS0WH
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 4000 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13657.0 lumens
Efficiency: N/A
Efficacy: 115.4 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.29 / 1.24
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

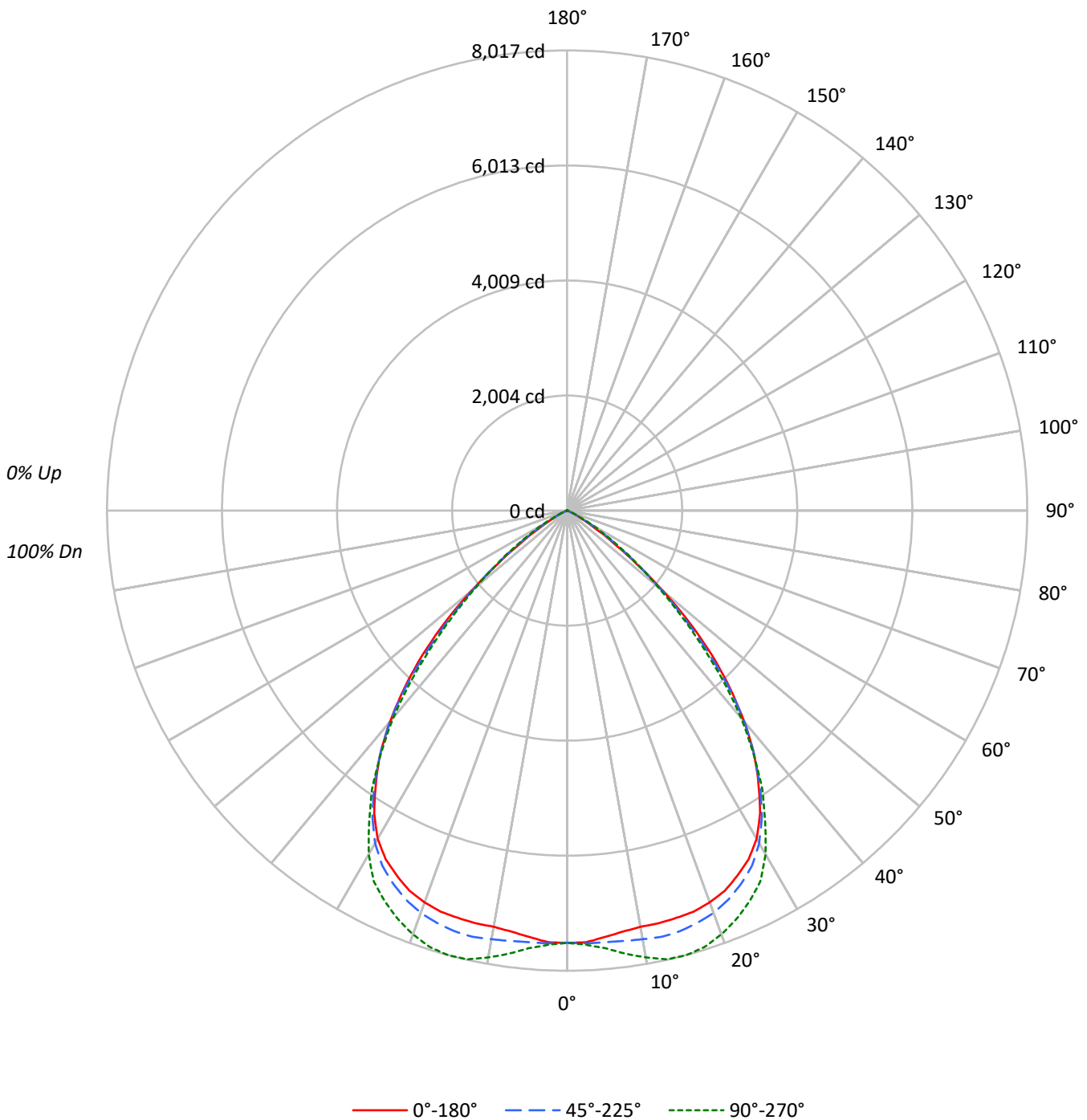
Input Watts (W): 118.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					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	50	30	10	50	30	10	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	112	109	106	103	110	107	104	102	103	101	99	99	97	96	96	94	93	91					91			
2	105	99	94	90	103	98	93	89	94	91	87	91	88	85	88	86	84	82					82			
3	98	90	84	80	96	89	83	79	86	82	78	84	80	76	81	78	75	73					73			
4	92	83	76	71	90	81	75	70	79	74	69	77	72	68	75	71	68	66					66			
5	86	75	68	63	84	74	68	63	73	67	62	71	66	62	69	65	61	59					59			
6	80	69	62	57	78	68	62	57	67	61	56	65	60	56	64	59	55	54					54			
7	75	64	56	51	73	63	56	51	62	55	51	60	55	51	59	54	50	49					49			
8	70	59	52	47	69	58	51	47	57	51	46	56	50	46	55	50	46	44					44			
9	66	54	47	43	65	54	47	43	53	47	42	52	46	42	51	46	42	40					40			
10	62	51	44	39	61	50	44	39	49	43	39	48	43	39	48	42	39	37					37			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	232185	232185	232185
5°	230899	233660	236923
10°	230497	237417	247500
15°	234537	242199	255936
20°	238348	244733	257797
25°	238761	244038	255593
30°	235118	238195	246114
35°	218822	220256	223012
40°	193404	193171	189693
45°	155789	149981	144172
50°	104609	101870	98431
55°	53106	57670	61213
60°	21752	26624	31046
65°	8114	8646	10142
70°	532	532	397
75°	1048	1739	2264
80°	266	0	0
85°	1026	0	1026



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	723.0	5.3
10°-20°	2154.8	15.8
20°-30°	3315.8	24.3
30°-40°	3631.7	26.6
40°-50°	2640.6	19.3
50°-60°	1015.8	7.4
60°-70°	159.1	1.2
70°-80°	11.4	0.1
80°-90°	4.6	0.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	6193.7	45.4
0°-40°	9825.4	71.9
0°-60°	13481.8	98.7
0°-90°	13657.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	13657.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7530	7530	7530	7530	7530	
5°	7459	7497	7549	7620	7654	709
15°	7347	7404	7587	7868	8017	2079
25°	7017	7060	7172	7385	7512	3227
35°	5813	5813	5851	5888	5924	3610
45°	3572	3536	3439	3351	3306	2716
55°	988	1014	1073	1108	1139	965
65°	111	116	118	135	139	136
75°	9	19	15	19	19	11
85°	3	0	0	0	3	7
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	7529.6	7529.6	7529.6	7529.6	7529.6
2.5°	7528.1	7539.9	7547.2	7563.3	7570.6
5°	7459.4	7497.4	7548.6	7620.3	7654.0
7.5°	7399.4	7452.0	7561.8	7716.9	7785.7
10°	7361.3	7418.4	7582.3	7793.0	7904.3
12.5°	7365.7	7428.6	7605.7	7858.9	8008.2
15°	7346.7	7403.8	7586.7	7867.7	8017.0
17.5°	7324.7	7371.6	7534.0	7809.1	7970.1
20°	7263.3	7302.8	7457.9	7706.7	7856.0
22.5°	7171.1	7207.6	7336.4	7567.7	7705.2
25°	7017.4	7059.8	7172.5	7384.7	7512.1
27.5°	6846.2	6871.0	6975.0	7168.1	7289.6
30°	6603.2	6612.0	6689.6	6838.8	6912.0
32.5°	6256.4	6254.9	6313.5	6388.1	6415.9
35°	5812.9	5812.9	5851.0	5887.6	5924.2
37.5°	5352.0	5346.1	5350.5	5359.3	5328.5
40°	4804.6	4792.9	4798.8	4746.1	4712.4
42.5°	4204.6	4214.8	4156.3	4062.6	4027.5
45°	3572.4	3535.8	3439.2	3351.4	3306.0
47.5°	2900.6	2843.5	2751.3	2660.6	2653.3
50°	2180.6	2183.5	2123.5	2072.3	2051.8
52.5°	1513.2	1529.3	1560.1	1565.9	1573.2
55°	987.8	1014.2	1072.7	1107.9	1138.6
57.5°	604.4	652.7	702.5	768.3	774.2
60°	352.7	376.1	431.7	481.5	503.4
62.5°	199.0	221.0	232.7	262.0	269.3
65°	111.2	115.6	118.5	134.6	139.0
67.5°	67.3	70.2	73.2	71.7	74.6
70°	5.9	13.2	5.9	7.3	4.4
72.5°	24.9	16.1	17.6	13.2	8.8
75°	8.8	19.0	14.6	19.0	19.0
77.5°	5.9	4.4	7.3	8.8	7.3
80°	1.5	0.0	0.0	0.0	0.0
82.5°	13.2	11.7	7.3	11.7	4.4
85°	2.9	0.0	0.0	0.0	2.9
87.5°	8.8	4.4	4.4	10.2	2.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)