

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: P245626

Luminaire Tested: **LSR8B40D010 EC8B40850 8LBN0GPH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P245626
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P201794)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B40D010 EC8B40850 8LBN0GPH
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 5000 CCT WITH GRAPHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: 2183 (1 lamp)
Luminaire Lumens: 3606.0 lumens
Efficiency: 165.2%
Efficacy: 88.2 lumens/watt
Spacing Criteria (0/90/45): 0.69 / 0.69 / 0.77
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

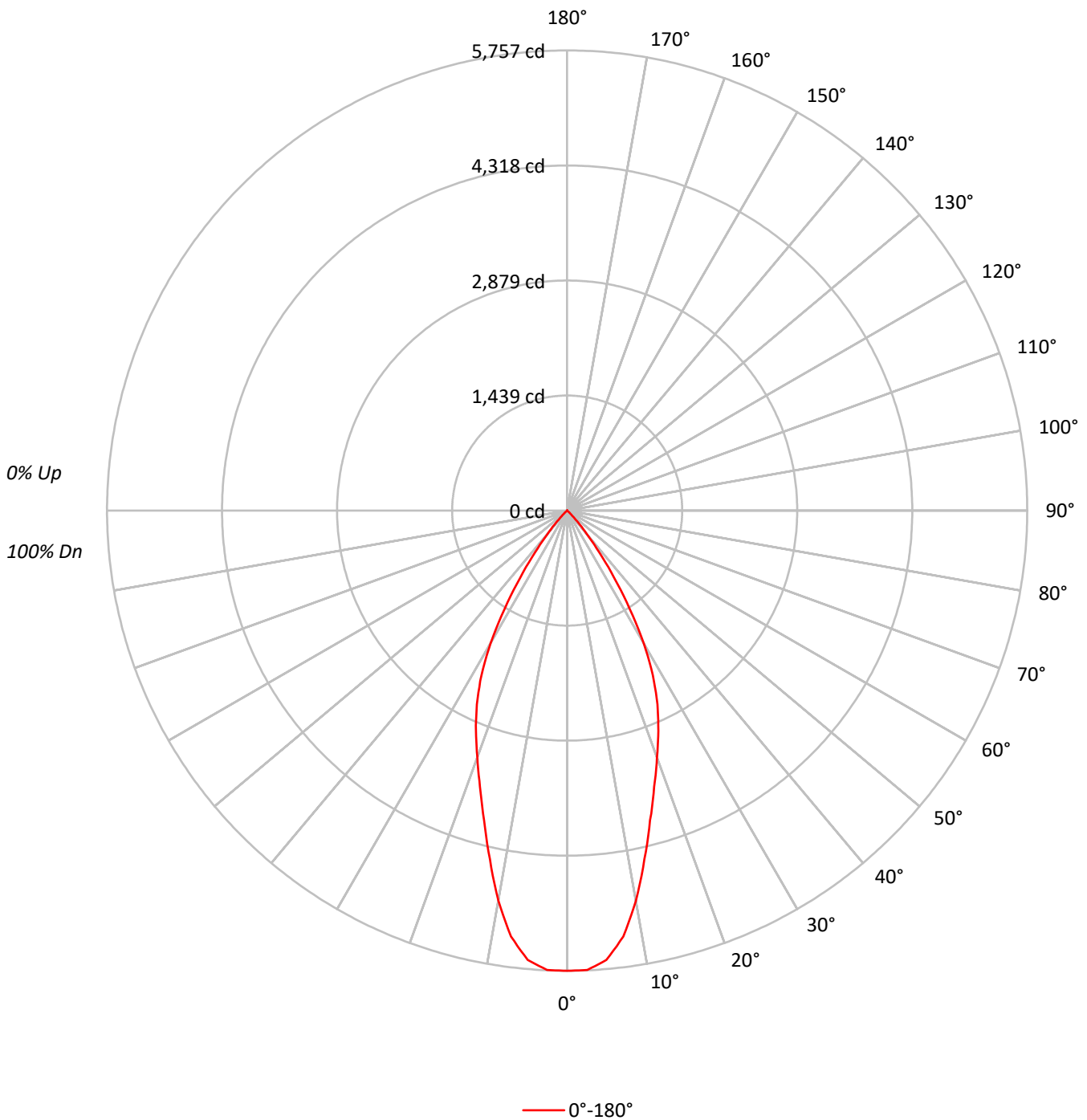
Input Watts (W): 40.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	
RCR																					
0	197	197	197	197	192	192	192	192	184	184	184	176	176	176	169	169	169	165	165	165	165
1	188	184	180	177	184	180	177	174	174	171	169	168	165	164	162	160	159	156	156	156	156
2	180	172	166	161	176	170	164	159	164	160	156	159	156	152	155	152	149	147	147	147	147
3	172	162	154	148	168	160	153	147	155	149	145	151	147	142	148	144	140	138	138	138	138
4	164	152	144	137	161	150	143	137	147	140	135	144	138	133	141	136	132	130	130	130	130
5	156	144	135	128	154	142	134	128	139	132	126	137	130	125	134	129	124	122	122	122	122
6	149	136	127	120	147	134	126	120	132	124	119	130	123	118	128	122	117	115	115	115	115
7	143	128	119	113	140	127	119	113	125	118	112	123	116	111	122	115	111	109	109	109	109
8	136	122	113	106	134	121	112	106	119	111	106	117	110	105	116	110	105	103	103	103	103
9	130	116	107	101	129	115	106	100	113	106	100	112	105	100	111	104	99	97	97	97	97
10	125	110	101	95	123	109	101	95	108	100	95	107	100	95	106	99	94	92	92	92	92

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	177534
5°	174689
10°	155217
15°	128067
20°	107811
25°	90960
30°	68094
35°	38514
40°	15208
45°	4099
50°	787
55°	0
60°	99
65°	0
70°	0
75°	0
80°	0
85°	0



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp	0°	Flux	
0°-10°	516.4	14.3	23.7	0°	5757	
10°-20°	1125.6	31.2	51.6	5°	5644	516
20°-30°	1205.7	33.4	55.2	15°	4012	1126
30°-40°	653.3	18.1	29.9	25°	2673	1206
40°-50°	101.7	2.8	4.7	35°	1023	653
50°-60°	2.7	0.1	0.1	45°	94	102
60°-70°	0.6	0.0	0.0	55°	0	3
70°-80°	0.0	0.0	0.0	65°	0	1
80°-90°	0.0	0.0	0.0	75°	0	0
90°-100°	0.0	0.0	0.0	85°	0	0
100°-110°	0.0	0.0	0.0	90°	0	0
110°-120°	0.0	0.0	0.0	95°	0	0
120°-130°	0.0	0.0	0.0	105°	0	0
130°-140°	0.0	0.0	0.0	115°	0	0
140°-150°	0.0	0.0	0.0	125°	0	0
150°-160°	0.0	0.0	0.0	135°	0	0
160°-170°	0.0	0.0	0.0	145°	0	0
170°-180°	0.0	0.0	0.0	155°	0	0
0°-30°	2847.7	79.0	130.4	165°	0	0
0°-40°	3501.0	97.1	160.4	175°	0	0
0°-60°	3605.4	100.0	165.2	180°	0	0
0°-90°	3606.0	100.0	165.2			
90°-120°	0.0	0.0	0.0			
90°-150°	0.0	0.0	0.0			
90°-180°	0.0	0.0	0.0			
0°-180°	3606.0	100.0	165.2			



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CANDELA DISTRIBUTION (FULL):

0°	
0°	5757.3
2.5°	5752.6
5°	5643.5
7.5°	5374.5
10°	4957.1
12.5°	4468.6
15°	4011.6
17.5°	3623.7
20°	3285.4
22.5°	2981.8
25°	2673.4
27.5°	2323.3
30°	1912.4
32.5°	1458.7
35°	1023.1
37.5°	655.2
40°	377.8
42.5°	201.3
45°	94.0
47.5°	51.3
50°	16.4
52.5°	1.6
55°	0.0
57.5°	1.6
60°	1.6
62.5°	0.0
65°	0.0
67.5°	1.6
70°	0.0
72.5°	0.0
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0
92.5°	0.0
95°	0.0
97.5°	0.0
100°	0.0
102.5°	0.0
105°	0.0
107.5°	0.0
110°	0.0



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CANDELA DISTRIBUTION (continued):

	0°
112.5°	0.0
115°	0.0
117.5°	0.0
120°	0.0
122.5°	0.0
125°	0.0
127.5°	0.0
130°	0.0
132.5°	0.0
135°	0.0
137.5°	0.0
140°	0.0
142.5°	0.0
145°	0.0
147.5°	0.0
150°	0.0
152.5°	0.0
155°	0.0
157.5°	0.0
160°	0.0
162.5°	0.0
165°	0.0
167.5°	0.0
170°	0.0
172.5°	0.0
175°	0.0
177.5°	0.0
180°	0.0

(END OF REPORT)