

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: P245621

Luminaire Tested: **LD8B50D010 ER8B50840 8LBN0GPH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P245621
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: LD8B50D010 ER8B50840 8LBN0GPH
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED
DOWNLIGHT
80 CRI 4000 CCT WITH GRAPHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: 2183 (1 lamp)
Luminaire Lumens: 4425.0 lumens
Efficiency: 202.7%
Efficacy: 83.5 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

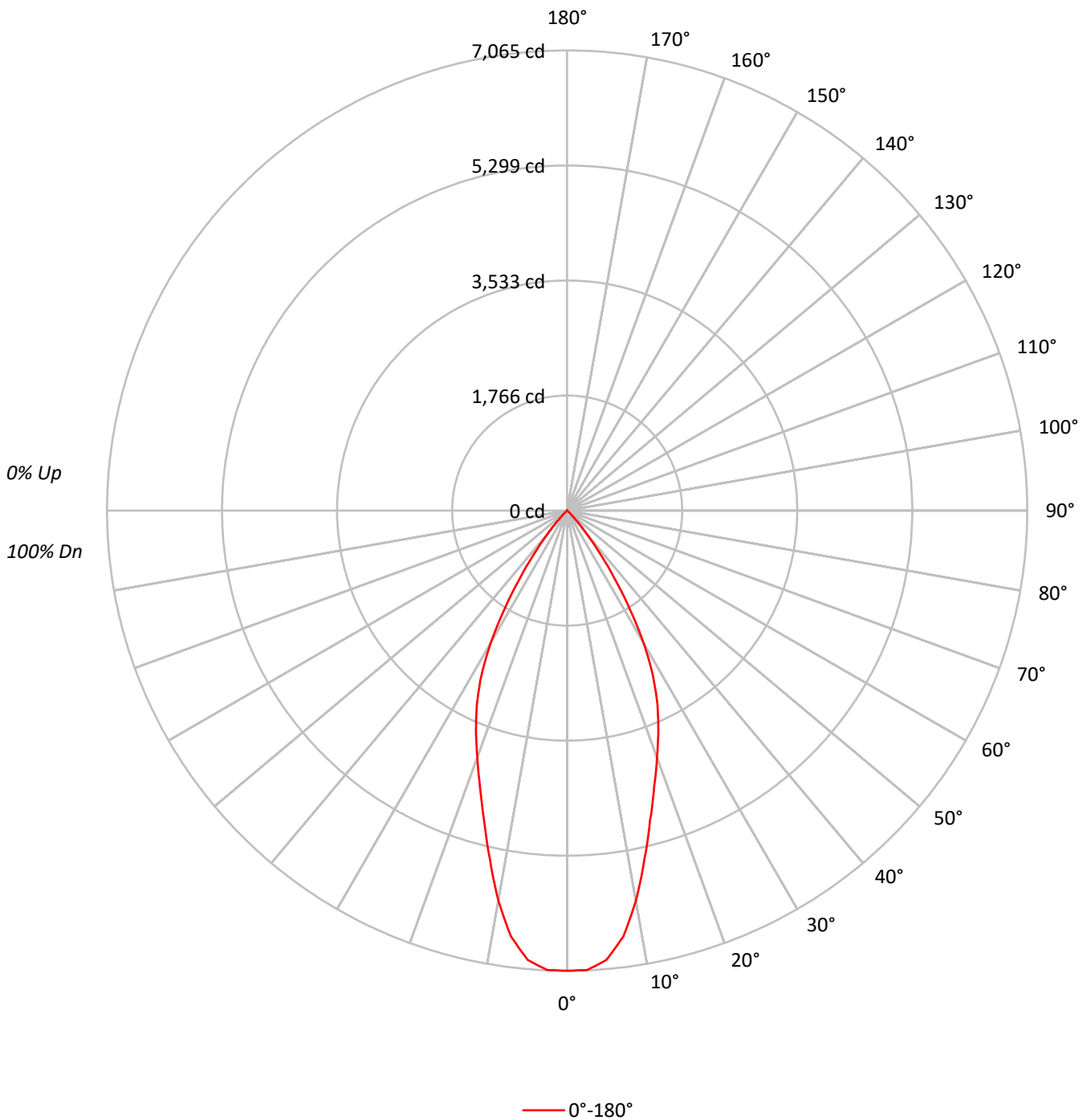
Input Watts (W): 53
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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			
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	241	241	241	241	236	236	236	236	225	225	225	216	216	216	207	207	207	203	203	203
1	231	226	221	217	226	221	217	213	213	210	207	206	203	201	199	197	195	191	191	191
2	221	211	204	198	216	208	201	195	202	196	191	196	191	187	190	186	183	180	180	180
3	211	199	189	182	207	196	187	180	191	183	178	186	180	175	181	176	172	169	169	169
4	201	187	177	169	197	185	175	168	180	172	166	176	169	164	173	167	162	159	159	159
5	192	176	165	157	189	174	164	157	171	162	155	168	160	154	164	158	153	150	150	150
6	183	166	155	147	180	165	154	147	162	153	146	159	151	145	157	149	144	141	141	141
7	175	158	146	138	172	156	146	138	154	144	137	151	143	137	149	142	136	133	133	133
8	167	149	138	130	165	148	138	130	146	137	130	144	135	129	142	134	129	126	126	126
9	160	142	131	123	158	141	130	123	139	129	123	137	129	122	136	128	122	119	119	119
10	153	135	124	117	151	134	124	117	133	123	116	131	122	116	130	122	116	113	113	113

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	217855
5°	214363
10°	190468
15°	157153
20°	132298
25°	111616
30°	83562
35°	47262
40°	18662
45°	5028
50°	964
55°	0
60°	123
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°	633.7	14.3	29.0	0°	7065	
10°-20°	1381.2	31.2	63.3	5°	6925	634
20°-30°	1479.5	33.4	67.8	15°	4923	1381
30°-40°	801.8	18.1	36.7	25°	3280	1480
40°-50°	124.8	2.8	5.7	35°	1256	802
50°-60°	3.3	0.1	0.2	45°	115	125
60°-70°	0.7	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°	3494.5	79.0	160.1	165°	0	0
0°-40°	4296.2	97.1	196.8	175°	0	0
0°-60°	4424.3	100.0	202.7	180°	0	0
0°-90°	4425.0	100.0	202.7			
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°	4425.0	100.0	202.7			



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CANDELA DISTRIBUTION (FULL):

0°	
0°	7064.9
2.5°	7059.1
5°	6925.2
7.5°	6595.1
10°	6082.9
12.5°	5483.5
15°	4922.7
17.5°	4446.8
20°	4031.6
22.5°	3659.0
25°	3280.5
27.5°	2851.0
30°	2346.8
32.5°	1790.0
35°	1255.5
37.5°	804.1
40°	463.6
42.5°	247.0
45°	115.3
47.5°	63.0
50°	20.1
52.5°	2.0
55°	0.0
57.5°	2.0
60°	2.0
62.5°	0.0
65°	0.0
67.5°	2.0
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)