

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: P245615

Luminaire Tested: **LSR8B50D010 EC8B50835 8LBN0GPH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P245615
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: LSR8B50D010 EC8B50835 8LBN0GPH
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 3500 CCT WITH GRAPHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: 2183 (1 lamp)
Luminaire Lumens: 4454.0 lumens
Efficiency: 204.0%
Efficacy: 84.0 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

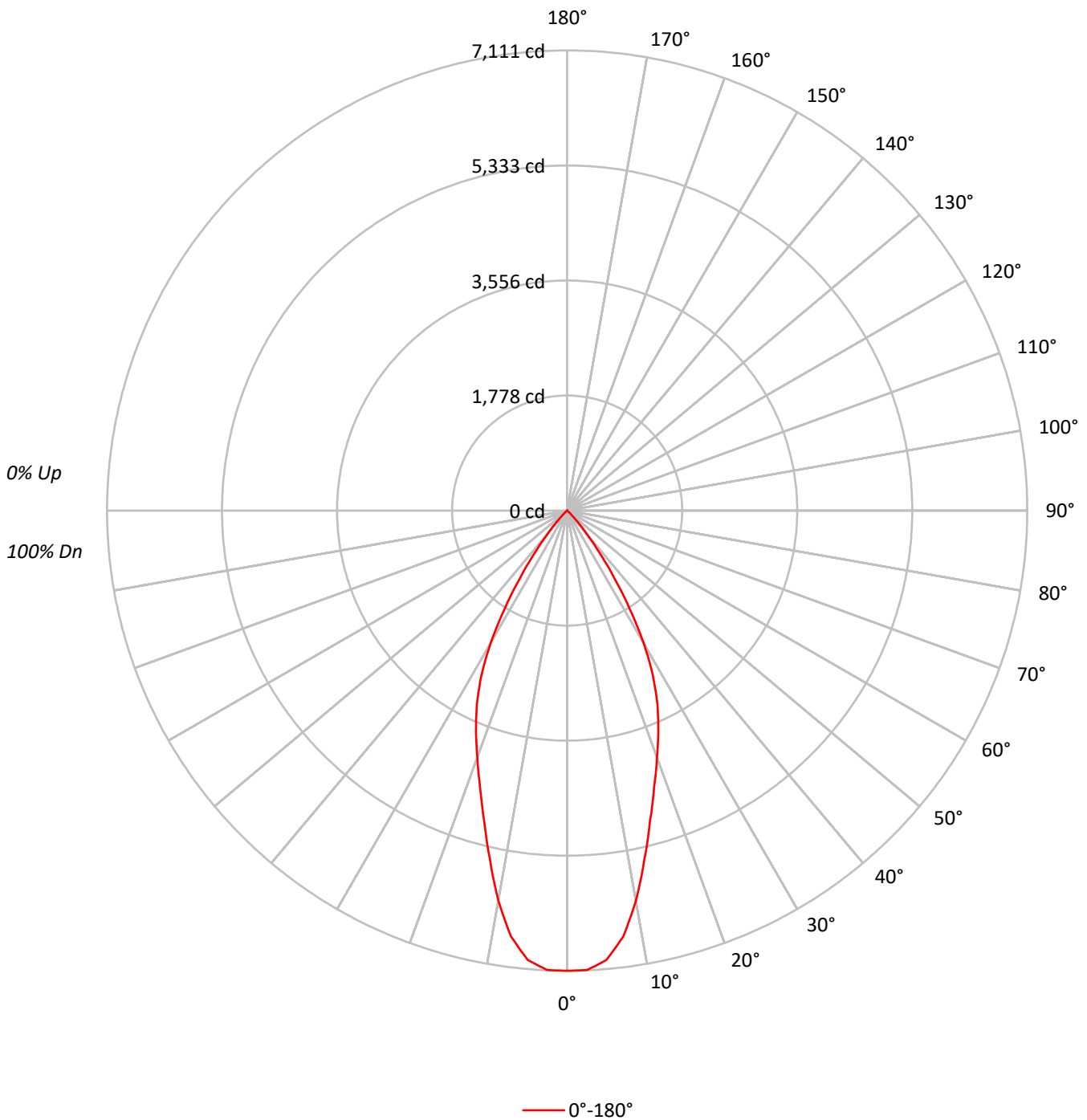
Input Watts (W): 53
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20		20		20		20		20		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	0			
RCR																		
0	243	243	243	243	237	237	237	237	227	227	227	217	217	217	208	208	208	204
1	232	227	222	218	227	223	219	215	215	211	208	207	204	202	200	198	196	193
2	222	213	205	199	218	209	202	197	203	197	192	197	192	188	191	188	184	181
3	212	200	191	183	208	197	188	182	192	185	179	187	181	176	182	177	173	170
4	202	188	178	170	199	186	176	169	182	173	167	178	171	165	174	168	163	160
5	193	177	166	158	190	176	165	158	172	163	156	169	161	155	166	159	154	151
6	184	168	156	148	181	166	155	148	163	154	147	160	152	146	158	150	145	142
7	176	159	147	139	174	157	147	139	155	145	138	152	144	138	150	143	137	134
8	168	150	139	131	166	149	139	131	147	137	131	145	136	130	143	135	129	127
9	161	143	132	124	159	142	131	124	140	130	124	138	129	123	137	129	123	120
10	154	136	125	118	152	135	125	117	134	124	117	132	123	117	131	122	117	114

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	219283
5°	215769
10°	191717
15°	158184
20°	133165
25°	112348
30°	84110
35°	47571
40°	18782
45°	5063
50°	969
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°	637.9	14.3	29.2	0°	7111	
10°-20°	1390.3	31.2	63.7	5°	6971	638
20°-30°	1489.2	33.4	68.2	15°	4955	1390
30°-40°	807.0	18.1	37.0	25°	3302	1489
40°-50°	125.6	2.8	5.8	35°	1264	807
50°-60°	3.3	0.1	0.2	45°	116	126
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°	3517.4	79.0	161.1	165°	0	0
0°-40°	4324.4	97.1	198.1	175°	0	0
0°-60°	4453.2	100.0	204.0	180°	0	0
0°-90°	4454.0	100.0	204.0			
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°	4454.0	100.0	204.0			



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CANDELA DISTRIBUTION (FULL):

0°	
0°	7111.2
2.5°	7105.4
5°	6970.6
7.5°	6638.3
10°	6122.8
12.5°	5519.4
15°	4955.0
17.5°	4475.9
20°	4058.0
22.5°	3683.0
25°	3302.0
27.5°	2869.7
30°	2362.2
32.5°	1801.7
35°	1263.7
37.5°	809.3
40°	466.6
42.5°	248.6
45°	116.1
47.5°	63.4
50°	20.2
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)