

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: P245645

Luminaire Tested: **LSR8B50D010 EC8B50935 8LBN0GPH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P245645
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 EC8B50935 8LBN0GPH
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
90 CRI 3500 CCT WITH GRAPHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: 2183 (1 lamp)
Luminaire Lumens: 3798.0 lumens
Efficiency: 174.0%
Efficacy: 71.7 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

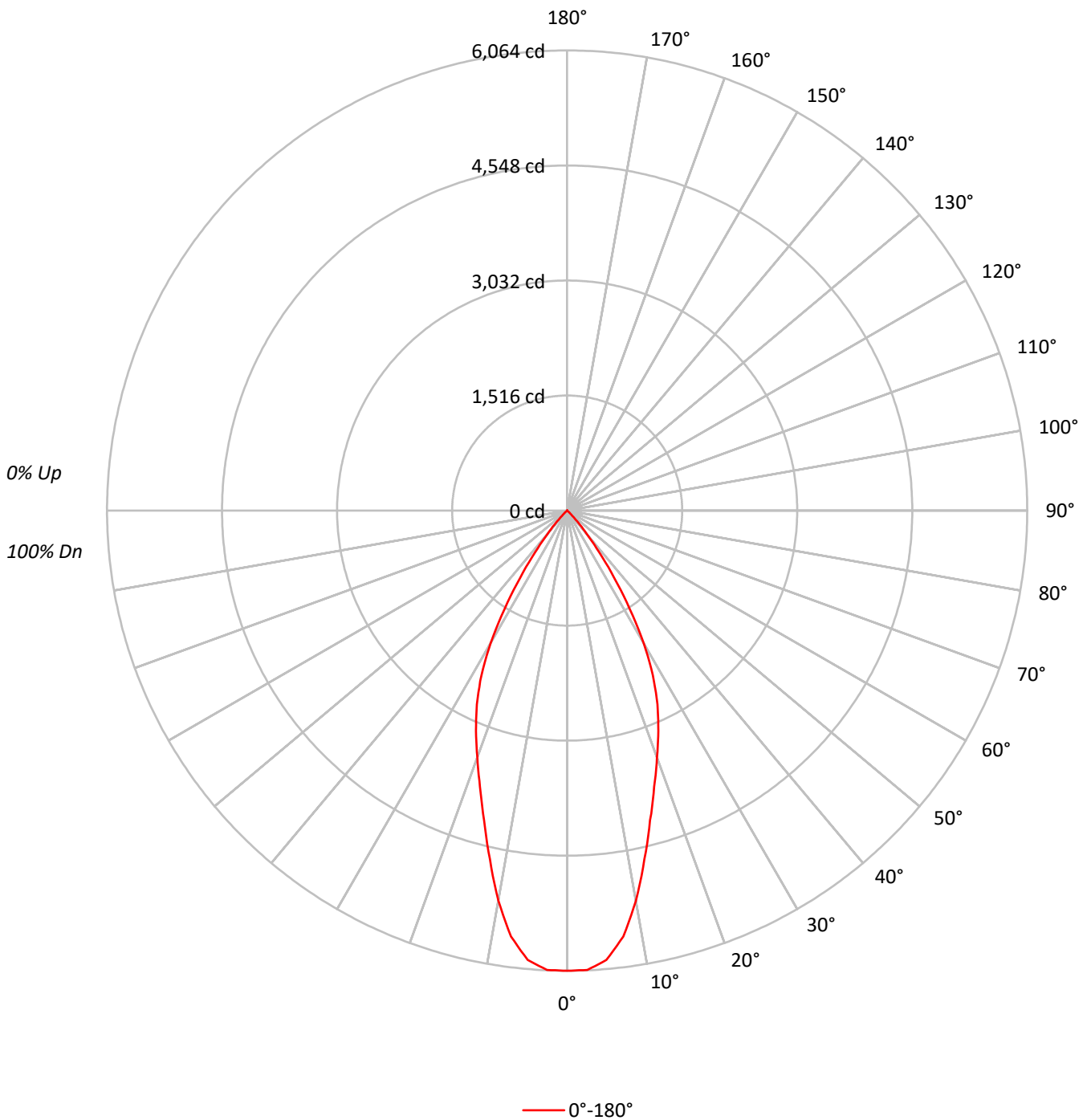
Input Watts (W): 53
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	207	207	207	207	202	202	202	202	193	193	193	185	185	185	178	178	178	174	174	174
1	198	194	190	186	194	190	186	183	183	180	177	177	174	172	171	169	167	164	164	164
2	189	181	175	170	186	179	173	168	173	168	164	168	164	161	163	160	157	154	154	154
3	181	170	162	156	177	168	161	155	164	157	152	159	154	150	156	151	148	145	145	145
4	173	160	152	145	169	158	150	144	155	148	142	151	145	141	148	143	139	136	136	136
5	165	151	142	135	162	150	141	134	147	139	133	144	137	132	141	135	131	129	129	129
6	157	143	133	126	155	142	133	126	139	131	125	137	130	124	134	128	123	121	121	121
7	150	135	126	119	148	134	125	119	132	124	118	130	123	117	128	122	117	114	114	114
8	144	128	119	112	142	127	118	112	125	117	111	124	116	111	122	115	110	108	108	108
9	137	122	112	106	136	121	112	106	119	111	105	118	110	105	117	110	105	102	102	102
10	132	116	107	100	130	115	106	100	114	106	100	113	105	100	111	104	99	97	97	97

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	186985
5°	183991
10°	163480
15°	134886
20°	113551
25°	95802
30°	71723
35°	40565
40°	16017
45°	4317
50°	830
55°	0
60°	105
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°	543.9	14.3	24.9	0°	6064	
10°-20°	1185.5	31.2	54.3	5°	5944	544
20°-30°	1269.9	33.4	58.2	15°	4225	1186
30°-40°	688.1	18.1	31.5	25°	2816	1270
40°-50°	107.1	2.8	4.9	35°	1078	688
50°-60°	2.8	0.1	0.1	45°	99	107
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°	2999.3	79.0	137.4	165°	0	0
0°-40°	3687.5	97.1	168.9	175°	0	0
0°-60°	3797.4	100.0	174.0	180°	0	0
0°-90°	3798.0	100.0	174.0			
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°	3798.0	100.0	174.0			



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CANDELA DISTRIBUTION (FULL):

0°	
0°	6063.8
2.5°	6058.9
5°	5944.0
7.5°	5660.6
10°	5221.0
12.5°	4706.5
15°	4225.2
17.5°	3816.7
20°	3460.3
22.5°	3140.6
25°	2815.7
27.5°	2447.0
30°	2014.3
32.5°	1536.3
35°	1077.6
37.5°	690.1
40°	397.9
42.5°	212.0
45°	99.0
47.5°	54.0
50°	17.3
52.5°	1.7
55°	0.0
57.5°	1.7
60°	1.7
62.5°	0.0
65°	0.0
67.5°	1.7
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)