

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: P245651

Luminaire Tested: **LSR8B50D010 EC8B50940 8LBN0GPH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P245651
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 EC8B50940 8LBN0GPH
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
90 CRI 4000 CCT WITH GRAPHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: 2183 (1 lamp)
Luminaire Lumens: 3967.0 lumens
Efficiency: 181.7%
Efficacy: 74.8 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

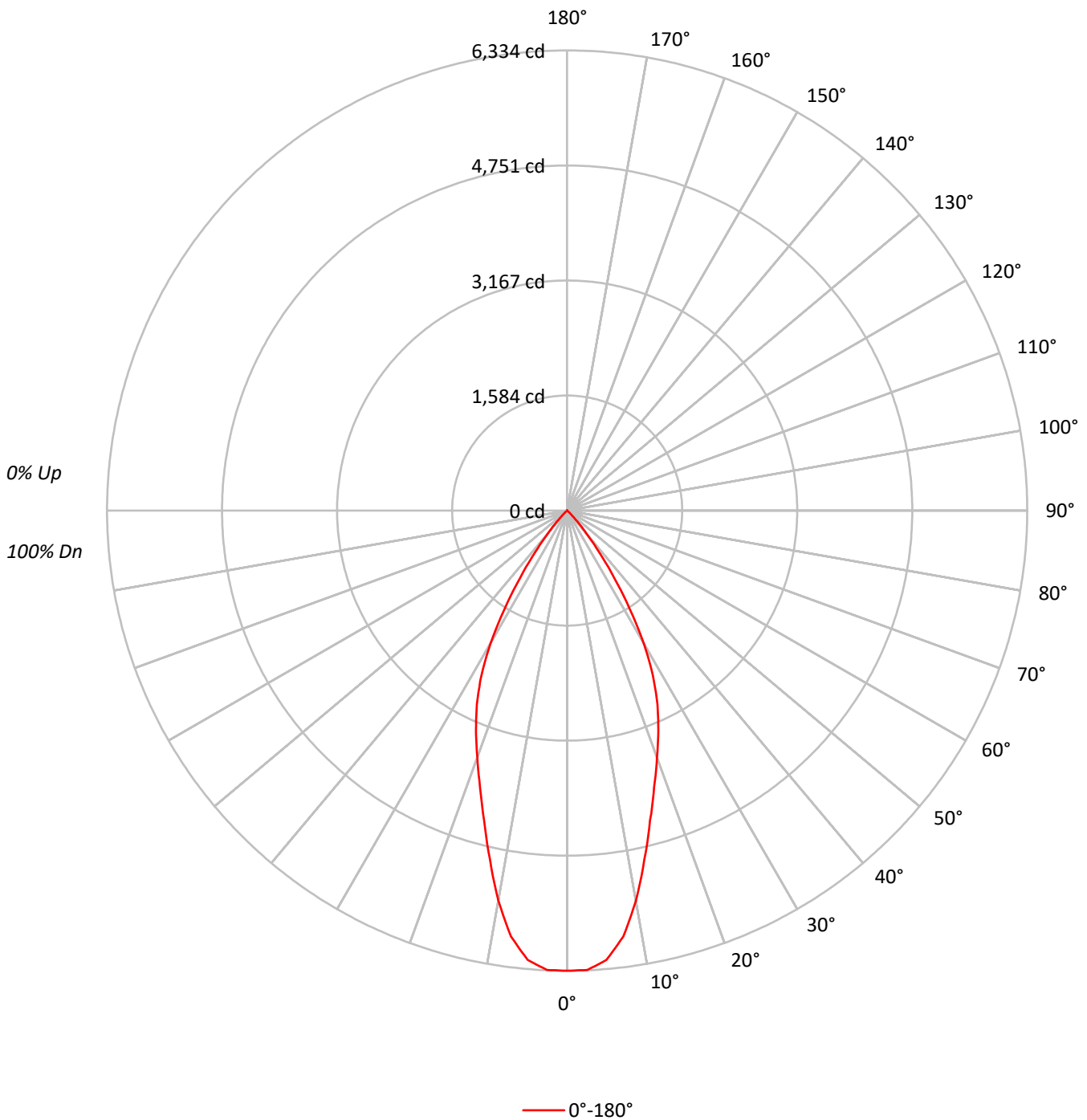
Input Watts (W): 53
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				0			
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0			
RCR																								
0	216	216	216	216	211	211	211	211	202	202	202	193	193	193	185	185	185	182	182	182	182	182		
1	207	202	198	194	203	198	195	191	191	188	185	184	182	180	178	176	175	172	172	172	172	172		
2	198	190	183	177	194	186	180	175	181	176	171	175	171	168	170	167	164	161	161	161	161	161		
3	189	178	170	163	185	176	168	162	171	164	159	167	161	157	162	158	154	152	152	152	152	152		
4	180	168	158	151	177	166	157	150	162	154	149	158	152	147	155	150	145	143	143	143	143	143		
5	172	158	148	141	169	156	147	140	153	145	139	150	143	138	147	142	137	134	134	134	134	134		
6	164	149	139	132	162	148	138	132	145	137	131	143	135	130	140	134	129	127	127	127	127	127		
7	157	141	131	124	155	140	131	124	138	129	123	136	128	122	134	127	122	119	119	119	119	119		
8	150	134	124	117	148	133	123	117	131	122	116	129	121	116	128	121	115	113	113	113	113	113		
9	144	127	117	111	142	126	117	110	125	116	110	123	115	110	122	115	109	107	107	107	107	107		
10	137	121	111	105	136	120	111	105	119	110	104	118	110	104	116	109	104	102	102	102	102	102		

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	195305
5°	192175
10°	170754
15°	140887
20°	118604
25°	100065
30°	74913
35°	42369
40°	16730
45°	4509
50°	864
55°	0
60°	111
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°	568.1	14.3	26.0	0°	6334	
10°-20°	1238.3	31.2	56.7	5°	6208	568
20°-30°	1326.4	33.4	60.8	15°	4413	1238
30°-40°	718.7	18.1	32.9	25°	2941	1326
40°-50°	111.9	2.8	5.1	35°	1126	719
50°-60°	2.9	0.1	0.1	45°	103	112
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°	3132.8	79.0	143.5	165°	0	0
0°-40°	3851.5	97.1	176.4	175°	0	0
0°-60°	3966.3	100.0	181.7	180°	0	0
0°-90°	3967.0	100.0	181.7			
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°	3967.0	100.0	181.7			



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CANDELA DISTRIBUTION (FULL):

0°	
0°	6333.6
2.5°	6328.5
5°	6208.4
7.5°	5912.5
10°	5453.3
12.5°	4915.9
15°	4413.2
17.5°	3986.5
20°	3614.3
22.5°	3280.3
25°	2941.0
27.5°	2555.9
30°	2103.9
32.5°	1604.7
35°	1125.5
37.5°	720.8
40°	415.6
42.5°	221.5
45°	103.4
47.5°	56.5
50°	18.0
52.5°	1.8
55°	0.0
57.5°	1.8
60°	1.8
62.5°	0.0
65°	0.0
67.5°	1.8
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)