

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: P246323

Luminaire Tested: **LSR8B50D010 EC8B50827 8LBN0B**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P246323
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P201749)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B50D010 EC8B50827 8LBN0B
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 2700 CCT WITH SPECULAR BLACK TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: 1887 (1 lamp)
Luminaire Lumens: 2970.0 lumens
Efficiency: 157.4%
Efficacy: 56.0 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

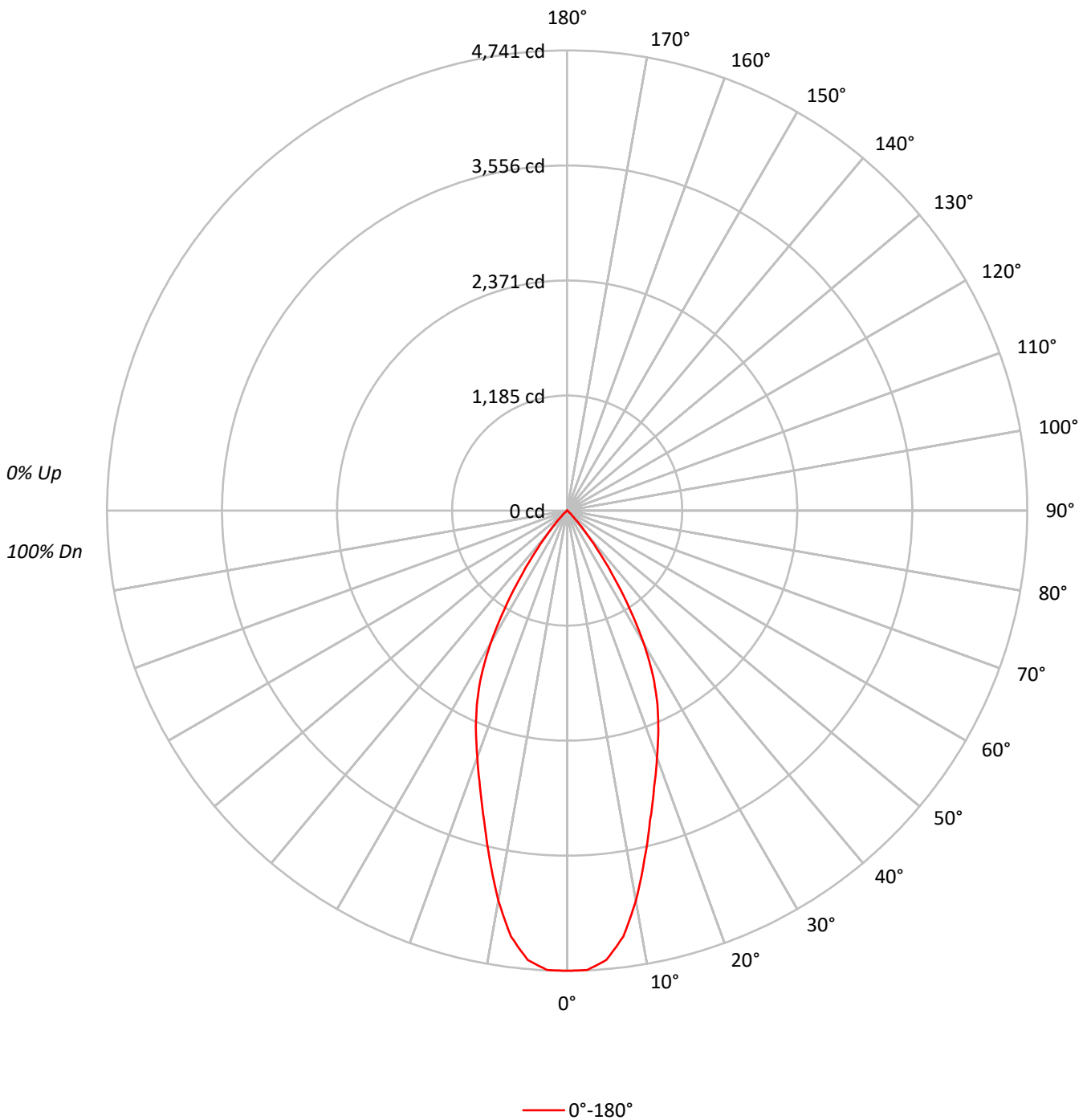
Input Watts (W): 53
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	187	187	187	187	183	183	183	183	175	175	175	167	167	167	161	161	161	157	157	157	157
1	179	175	172	168	175	172	169	166	166	163	161	160	158	156	154	153	151	149	149	149	149
2	171	164	158	153	168	162	156	152	156	152	148	152	148	145	148	145	142	140	140	140	140
3	164	154	147	141	160	152	145	140	148	142	138	144	140	136	141	137	134	131	131	131	131
4	156	145	137	131	153	143	136	130	140	134	129	137	132	127	134	130	126	123	123	123	123
5	149	137	128	122	146	135	127	122	133	126	120	130	124	119	128	123	118	116	116	116	116
6	142	129	121	114	140	128	120	114	126	119	113	124	117	112	122	116	112	110	110	110	110
7	136	122	114	107	134	121	113	107	119	112	107	118	111	106	116	110	106	103	103	103	103
8	130	116	107	101	128	115	107	101	114	106	101	112	105	100	110	104	100	98	98	98	98
9	124	110	102	96	123	109	101	96	108	101	95	107	100	95	105	99	95	93	93	93	93
10	119	105	96	91	118	104	96	91	103	96	90	102	95	90	101	94	90	88	88	88	88

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	146183
5°	143872
10°	127809
15°	105461
20°	88798
25°	74901
30°	56102
35°	31730
40°	12531
45°	3354
50°	676
55°	0
60°	93
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°	425.3	14.3	22.5	0°	4741	
10°-20°	927.0	31.2	49.1	5°	4648	425
20°-30°	993.0	33.4	52.6	15°	3304	927
30°-40°	538.2	18.1	28.5	25°	2201	993
40°-50°	83.6	2.8	4.4	35°	843	538
50°-60°	2.4	0.1	0.1	45°	77	84
60°-70°	0.6	0.0	0.0	55°	0	2
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°	2345.3	79.0	124.3	165°	0	0
0°-40°	2883.5	97.1	152.8	175°	0	0
0°-60°	2969.4	100.0	157.4	180°	0	0
0°-90°	2970.0	100.0	157.4			
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°	2970.0	100.0	157.4			



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CANDELA DISTRIBUTION (FULL):

0°	
0°	4740.6
2.5°	4737.5
5°	4647.9
7.5°	4426.2
10°	4081.8
12.5°	3680.8
15°	3303.5
17.5°	2984.3
20°	2706.0
22.5°	2456.0
25°	2201.4
27.5°	1913.6
30°	1575.6
32.5°	1201.3
35°	842.9
37.5°	539.5
40°	311.3
42.5°	166.6
45°	76.9
47.5°	40.8
50°	14.1
52.5°	1.5
55°	0.0
57.5°	1.5
60°	1.5
62.5°	0.0
65°	0.0
67.5°	1.5
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)