

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: P251350

Luminaire Tested: **LSR8B60D010 EC8B60827 8LBN0B**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P251350
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: LSR8B60D010 EC8B60827 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: 3365.0 lumens
Efficiency: 178.3%
Efficacy: 56.6 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

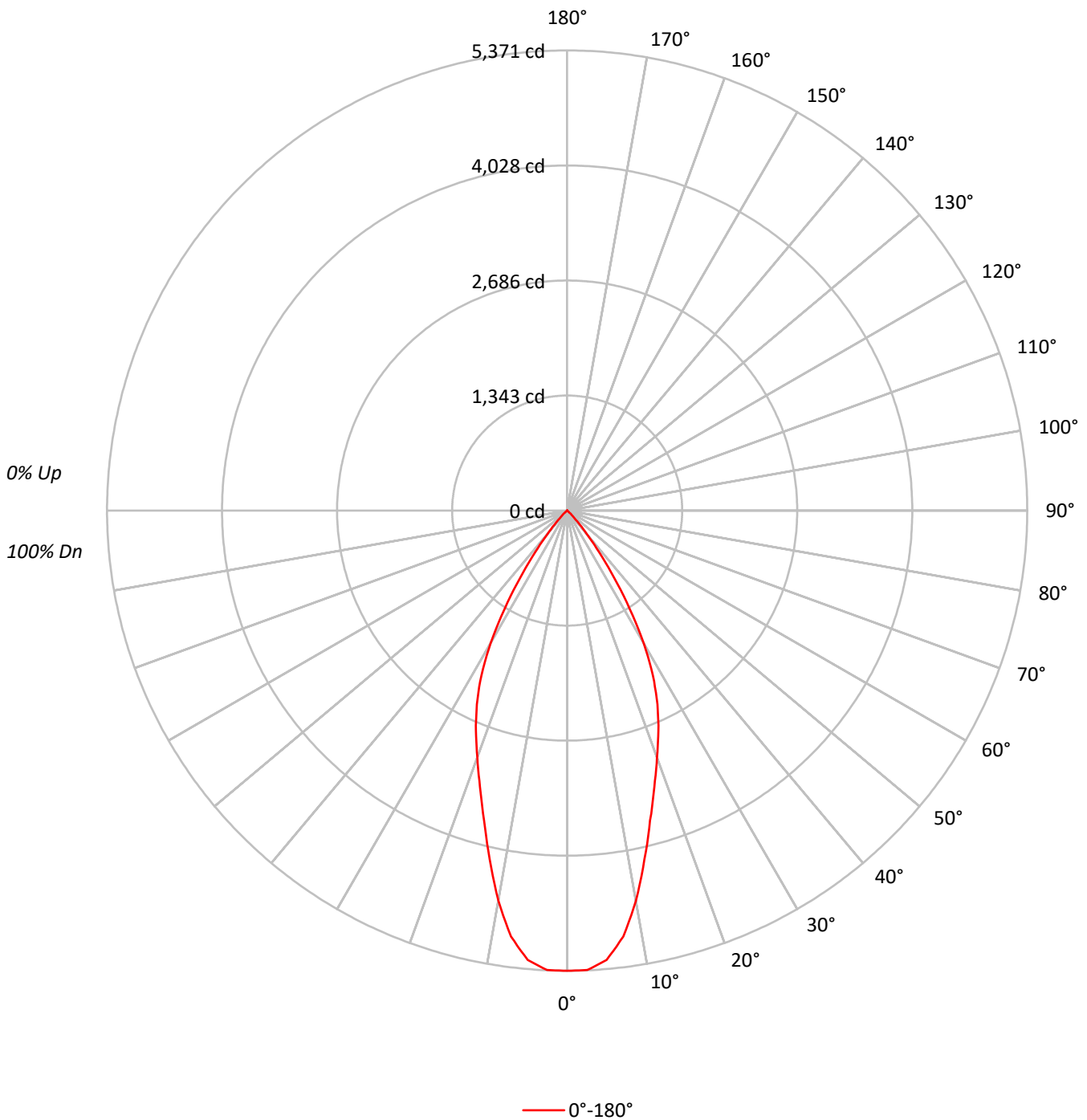
Input Watts (W): 59.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	212	212	212	212	207	207	207	207	198	198	198	190	190	190	182	182	182	178	178	178	178
1	203	199	194	191	199	195	191	188	188	185	182	181	179	177	175	173	171	168	168	168	168
2	194	186	179	174	190	183	177	172	177	172	168	172	168	165	167	164	161	158	158	158	158
3	185	175	166	160	182	172	165	159	168	161	156	163	158	154	159	155	151	149	149	149	149
4	177	164	155	148	174	162	154	147	159	151	146	155	149	144	152	147	142	140	140	140	140
5	169	155	145	138	166	153	144	138	150	142	137	147	141	135	145	139	134	132	132	132	132
6	161	146	137	130	159	145	136	129	143	134	128	140	133	127	138	131	127	124	124	124	124
7	154	139	129	122	152	137	128	121	135	127	121	133	126	120	131	125	120	117	117	117	117
8	147	131	122	115	145	130	121	115	129	120	114	127	119	114	125	118	113	111	111	111	111
9	141	125	115	109	139	124	115	108	122	114	108	121	113	108	119	112	107	105	105	105	105
10	135	119	109	103	133	118	109	103	117	108	102	115	108	102	114	107	102	100	100	100	100

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	165625
5°	163007
10°	144809
15°	119486
20°	100608
25°	84860
30°	63562
35°	35950
40°	14198
45°	3798
50°	763
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°	481.8	14.3	25.5	0°	5371	
10°-20°	1050.3	31.2	55.7	5°	5266	482
20°-30°	1125.1	33.4	59.6	15°	3743	1050
30°-40°	609.7	18.1	32.3	25°	2494	1125
40°-50°	94.7	2.8	5.0	35°	955	610
50°-60°	2.7	0.1	0.1	45°	87	95
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°	2657.2	79.0	140.8	165°	0	0
0°-40°	3266.9	97.1	173.1	175°	0	0
0°-60°	3364.3	100.0	178.3	180°	0	0
0°-90°	3365.0	100.0	178.3			
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°	3365.0	100.0	178.3			



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CANDELA DISTRIBUTION (FULL):

0°	
0°	5371.1
2.5°	5367.6
5°	5266.1
7.5°	5014.9
10°	4624.7
12.5°	4170.4
15°	3742.8
17.5°	3381.2
20°	3065.9
22.5°	2782.6
25°	2494.1
27.5°	2168.1
30°	1785.1
32.5°	1361.1
35°	955.0
37.5°	611.2
40°	352.7
42.5°	188.8
45°	87.1
47.5°	46.3
50°	15.9
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)