

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: P251352

Luminaire Tested: **LSR8B60D010 EC8B60830 8LBN0B**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P251352
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 EC8B60830 8LBN0B
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 3000 CCT WITH SPECULAR BLACK TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: 1887 (1 lamp)
Luminaire Lumens: 3449.0 lumens
Efficiency: 182.8%
Efficacy: 58.0 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

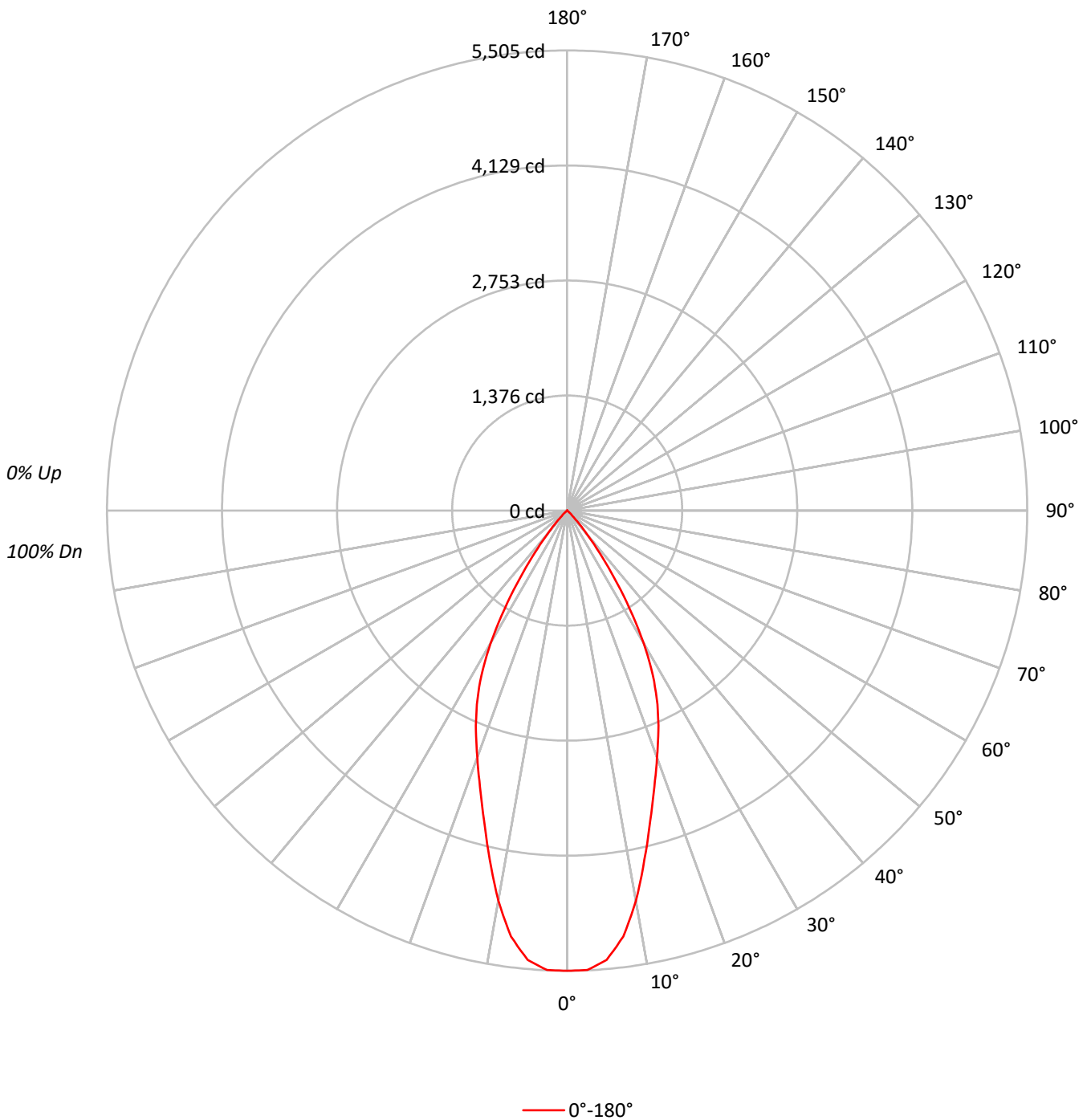
Input Watts (W): 59.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	218	218	218	218	213	213	213	213	203	203	203	194	194	194	187	187	187	183	183	183
1	208	204	199	195	204	200	196	192	192	189	186	185	183	181	179	177	176	173	173	173
2	199	191	184	178	195	188	181	176	182	177	172	176	172	169	171	168	165	162	162	162
3	190	179	171	164	186	177	169	163	172	165	160	167	162	158	163	159	155	152	152	152
4	181	168	159	152	178	166	158	151	163	155	149	159	153	148	156	150	146	143	143	143
5	173	159	149	142	170	157	148	141	154	146	140	151	144	139	148	142	138	135	135	135
6	165	150	140	133	163	149	139	132	146	138	131	144	136	131	141	135	130	127	127	127
7	158	142	132	125	155	141	131	124	139	130	124	137	129	123	135	128	123	120	120	120
8	151	135	125	118	149	134	124	117	132	123	117	130	122	116	128	121	116	114	114	114
9	144	128	118	111	142	127	118	111	125	117	111	124	116	110	122	115	110	108	108	108
10	138	122	112	105	137	121	112	105	120	111	105	118	110	105	117	110	104	102	102	102

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	169757
5°	167075
10°	148425
15°	122470
20°	103119
25°	86979
30°	65150
35°	36846
40°	14552
45°	3894
50°	782
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°	493.9	14.3	26.2	0°	5505	
10°-20°	1076.5	31.2	57.0	5°	5398	494
20°-30°	1153.2	33.4	61.1	15°	3836	1077
30°-40°	624.9	18.1	33.1	25°	2556	1153
40°-50°	97.1	2.8	5.1	35°	979	625
50°-60°	2.8	0.1	0.1	45°	89	97
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°	2723.6	79.0	144.3	165°	0	0
0°-40°	3348.5	97.1	177.5	175°	0	0
0°-60°	3448.3	100.0	182.7	180°	0	0
0°-90°	3449.0	100.0	182.8			
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°	3449.0	100.0	182.8			



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CANDELA DISTRIBUTION (FULL):

0°	
0°	5505.1
2.5°	5501.6
5°	5397.5
7.5°	5140.1
10°	4740.2
12.5°	4274.5
15°	3836.3
17.5°	3465.6
20°	3142.4
22.5°	2852.1
25°	2556.4
27.5°	2222.2
30°	1829.7
32.5°	1395.1
35°	978.8
37.5°	626.5
40°	361.5
42.5°	193.5
45°	89.3
47.5°	47.4
50°	16.3
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)