

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: P251356

Luminaire Tested: **LSR8B60D010 EC8B60840 8LBN0B**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P251356
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 EC8B60840 8LBN0B
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 4000 CCT WITH SPECULAR BLACK TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: 1887 (1 lamp)
Luminaire Lumens: 3563.0 lumens
Efficiency: 188.8%
Efficacy: 59.9 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

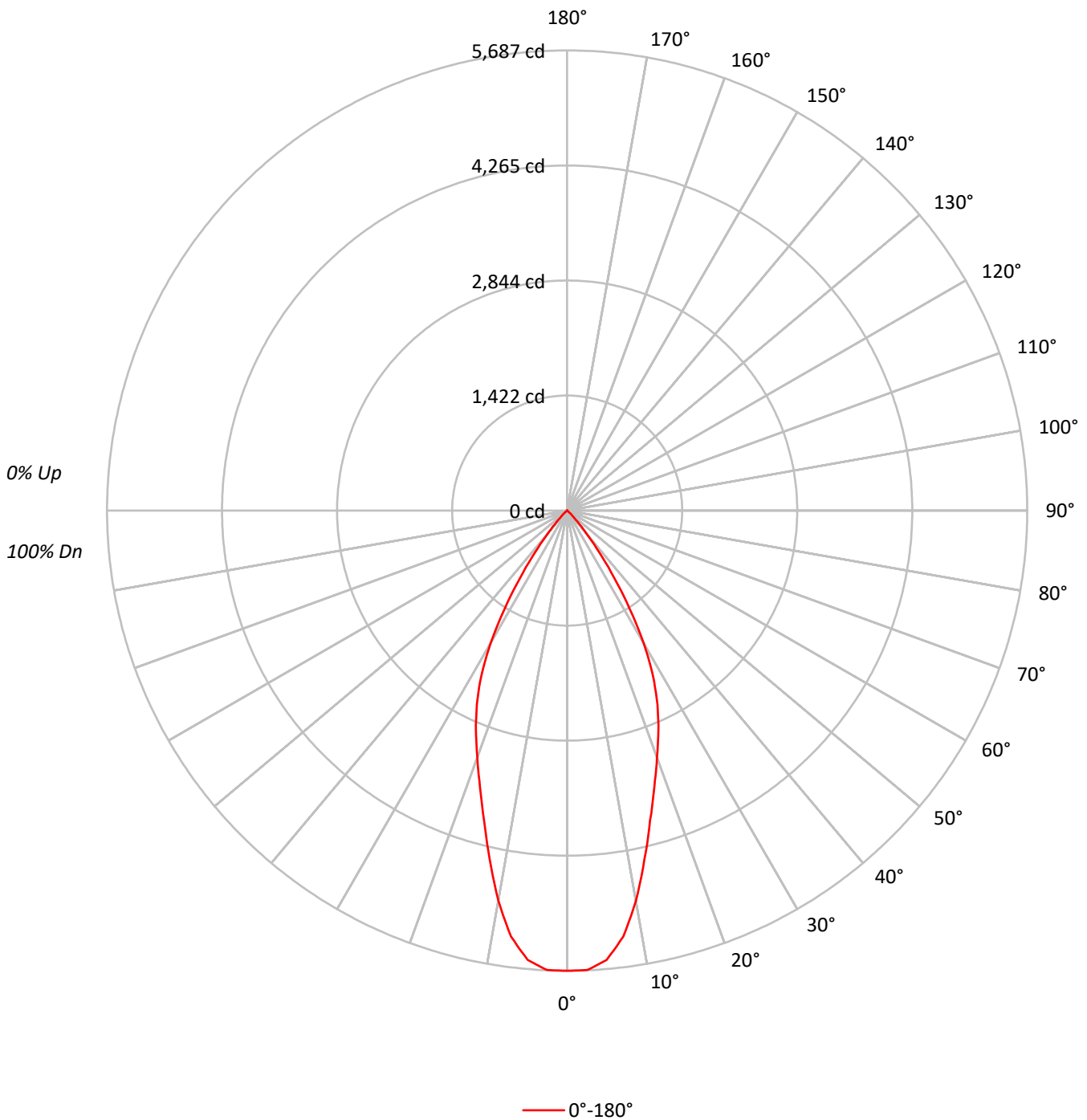
Input Watts (W): 59.5
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	225	225	225	225	220	220	220	220	210	210	210	201	201	201	193	193	193	189
1	215	210	206	202	211	206	202	199	199	195	193	192	189	187	185	183	182	178
2	206	197	190	184	201	194	187	182	188	182	178	182	178	174	177	174	171	168
3	196	185	176	169	193	182	174	168	178	171	165	173	167	163	169	164	160	158
4	187	174	164	157	184	172	163	156	168	160	154	164	158	153	161	155	151	148
5	179	164	154	146	176	162	153	146	159	151	145	156	149	143	153	147	142	139
6	171	155	145	137	168	154	144	137	151	142	136	148	141	135	146	139	134	131
7	163	147	136	129	161	146	136	129	143	134	128	141	133	127	139	132	127	124
8	156	139	129	122	154	138	128	121	136	127	121	134	126	120	133	125	120	117
9	149	132	122	115	147	131	121	115	130	121	114	128	120	114	126	119	114	111
10	143	126	116	109	141	125	115	109	124	115	108	122	114	108	121	113	108	106

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	175369
5°	172597
10°	153329
15°	126518
20°	106528
25°	89854
30°	67300
35°	38062
40°	15031
45°	4021
50°	811
55°	0
60°	117
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°	510.2	14.3	27.0	0°	5687	
10°-20°	1112.1	31.2	58.9	5°	5576	510
20°-30°	1191.3	33.4	63.1	15°	3963	1112
30°-40°	645.6	18.1	34.2	25°	2641	1191
40°-50°	100.3	2.8	5.3	35°	1011	646
50°-60°	2.9	0.1	0.2	45°	92	100
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°	2813.6	79.0	149.1	165°	0	0
0°-40°	3459.2	97.1	183.3	175°	0	0
0°-60°	3562.3	100.0	188.8	180°	0	0
0°-90°	3563.0	100.0	188.8			
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°	3563.0	100.0	188.8			



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CANDELA DISTRIBUTION (FULL):

0°	
0°	5687.1
2.5°	5683.4
5°	5575.9
7.5°	5310.0
10°	4896.8
12.5°	4415.8
15°	3963.1
17.5°	3580.2
20°	3246.3
22.5°	2946.4
25°	2640.9
27.5°	2295.7
30°	1890.1
32.5°	1441.2
35°	1011.1
37.5°	647.2
40°	373.4
42.5°	199.9
45°	92.2
47.5°	49.0
50°	16.9
52.5°	1.9
55°	0.0
57.5°	1.9
60°	1.9
62.5°	0.0
65°	0.0
67.5°	1.9
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)