

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: P251248

Luminaire Tested: **LSR8B60D010 EC8B60850 8LBN0GPH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P251248
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: LSR8B60D010 EC8B60850 8LBN0GPH
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 5000 CCT WITH GRAPHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: 2183 (1 lamp)
Luminaire Lumens: 5111.0 lumens
Efficiency: 234.1%
Efficacy: 85.9 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

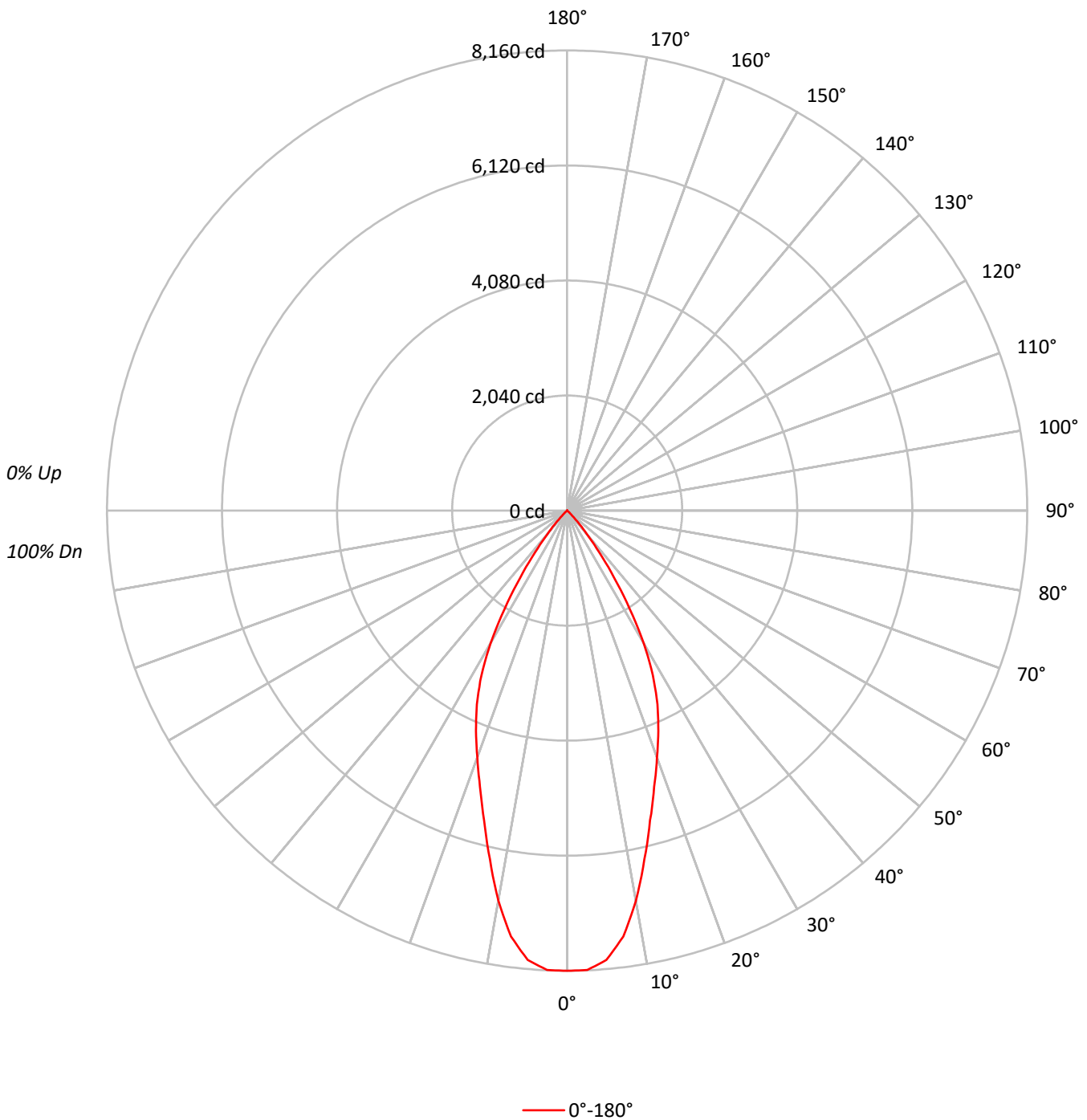
Input Watts (W): 59.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	279	279	279	279	272	272	272	272	260	260	260	249	249	249	239	239	239	234		
1	267	261	255	250	261	256	251	246	246	242	239	238	235	232	230	227	225	221		
2	255	244	235	228	250	240	232	226	233	226	221	226	221	216	220	215	212	208		
3	243	229	219	210	239	226	216	208	220	212	205	215	208	202	209	204	199	195		
4	232	216	204	195	228	213	202	194	208	199	191	204	196	189	199	193	187	184		
5	222	204	191	182	218	201	190	181	197	187	179	194	185	178	190	182	176	173		
6	212	192	179	170	208	191	178	170	187	176	168	184	174	167	181	173	166	163		
7	202	182	169	160	199	181	168	159	178	167	159	175	165	158	172	164	157	154		
8	193	173	160	151	191	171	159	150	169	158	150	167	157	149	164	155	149	146		
9	185	164	151	142	182	163	151	142	161	150	142	159	149	141	157	148	141	138		
10	177	156	143	135	175	155	143	135	153	142	134	151	141	134	150	140	134	131		

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	251627
5°	247596
10°	219998
15°	181517
20°	152808
25°	128921
30°	96516
35°	54588
40°	21552
45°	5809
50°	1113
55°	0
60°	142
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°	731.9	14.3	33.5	0°	8160	
10°-20°	1595.4	31.2	73.1	5°	7999	732
20°-30°	1708.9	33.4	78.3	15°	5686	1595
30°-40°	926.0	18.1	42.4	25°	3789	1709
40°-50°	144.1	2.8	6.6	35°	1450	926
50°-60°	3.8	0.1	0.2	45°	133	144
60°-70°	0.9	0.0	0.0	55°	0	4
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°	4036.2	79.0	184.9	165°	0	0
0°-40°	4962.2	97.1	227.3	175°	0	0
0°-60°	5110.1	100.0	234.1	180°	0	0
0°-90°	5111.0	100.0	234.1			
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°	5111.0	100.0	234.1			



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CANDELA DISTRIBUTION (FULL):

0°	
0°	8160.1
2.5°	8153.5
5°	7998.8
7.5°	7617.5
10°	7026.0
12.5°	6333.6
15°	5685.9
17.5°	5136.1
20°	4656.6
22.5°	4226.3
25°	3789.1
27.5°	3293.0
30°	2710.6
32.5°	2067.5
35°	1450.1
37.5°	928.7
40°	535.4
42.5°	285.3
45°	133.2
47.5°	72.7
50°	23.2
52.5°	2.3
55°	0.0
57.5°	2.3
60°	2.3
62.5°	0.0
65°	0.0
67.5°	2.3
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)