

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: P251256

Luminaire Tested: **LSR8B60D010 EC8B60940 8LBN0GPH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P251256
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 EC8B60940 8LBN0GPH
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
90 CRI 4000 CCT WITH GRAPHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: 2183 (1 lamp)
Luminaire Lumens: 4494.0 lumens
Efficiency: 205.9%
Efficacy: 75.5 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

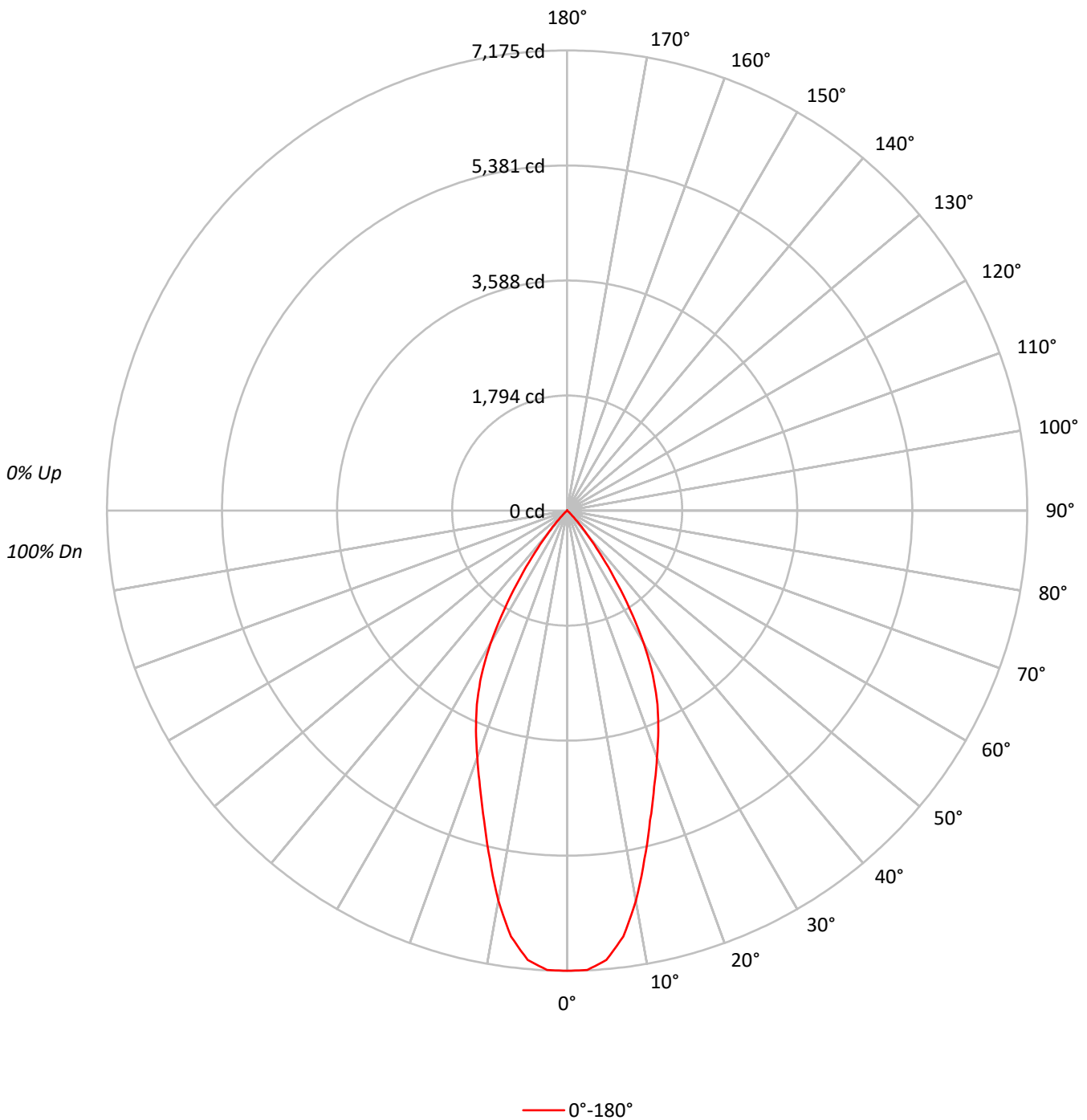
Input Watts (W): 59.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20		20		20		20		20		20		20		20			
RC	80		70		50		30		10		0		0		0			
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	
RCR																		
0	245	245	245	245	239	239	239	239	229	229	229	219	219	219	210	210	210	206
1	235	229	224	220	230	225	221	217	217	213	210	209	206	204	202	200	198	194
2	224	215	207	201	220	211	204	198	205	199	194	199	194	190	193	189	186	183
3	214	202	192	185	210	199	190	183	194	186	180	189	183	178	184	179	175	172
4	204	190	179	171	201	187	178	170	183	175	168	179	172	166	175	169	164	162
5	195	179	168	160	192	177	167	159	173	164	158	170	162	156	167	160	155	152
6	186	169	158	150	183	168	157	149	165	155	148	162	153	147	159	152	146	143
7	178	160	149	141	175	159	148	140	156	147	139	154	145	139	152	144	138	135
8	170	152	140	133	168	151	140	132	148	139	132	146	138	131	145	137	131	128
9	163	144	133	125	160	143	132	125	141	132	125	140	131	124	138	130	124	121
10	156	137	126	119	154	136	126	119	135	125	118	133	124	118	132	124	118	115

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	221251
5°	217706
10°	193439
15°	159605
20°	134359
25°	113358
30°	84865
35°	48000
40°	18952
45°	5107
50°	979
55°	0
60°	123
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°	643.6	14.3	29.5	0°	7175	
10°-20°	1402.8	31.2	64.3	5°	7033	644
20°-30°	1502.6	33.4	68.8	15°	5000	1403
30°-40°	814.3	18.1	37.3	25°	3332	1503
40°-50°	126.7	2.8	5.8	35°	1275	814
50°-60°	3.3	0.1	0.2	45°	117	127
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°	3549.0	79.0	162.6	165°	0	0
0°-40°	4363.2	97.1	199.9	175°	0	0
0°-60°	4493.3	100.0	205.8	180°	0	0
0°-90°	4494.0	100.0	205.9			
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°	4494.0	100.0	205.9			



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CANDELA DISTRIBUTION (FULL):

0°	
0°	7175.0
2.5°	7169.2
5°	7033.2
7.5°	6698.0
10°	6177.8
12.5°	5569.0
15°	4999.5
17.5°	4516.1
20°	4094.4
22.5°	3716.1
25°	3331.7
27.5°	2895.5
30°	2383.4
32.5°	1817.9
35°	1275.1
37.5°	816.6
40°	470.8
42.5°	250.9
45°	117.1
47.5°	64.0
50°	20.4
52.5°	2.0
55°	0.0
57.5°	2.0
60°	2.0
62.5°	0.0
65°	0.0
67.5°	2.0
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)