

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: P251254

Luminaire Tested: **LSR8B60D010 EC8B60935 8LBN0GPH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P251254
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 EC8B60935 8LBN0GPH
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
90 CRI 3500 CCT WITH GRAPHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: 2183 (1 lamp)
Luminaire Lumens: 4303.0 lumens
Efficiency: 197.1%
Efficacy: 72.3 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

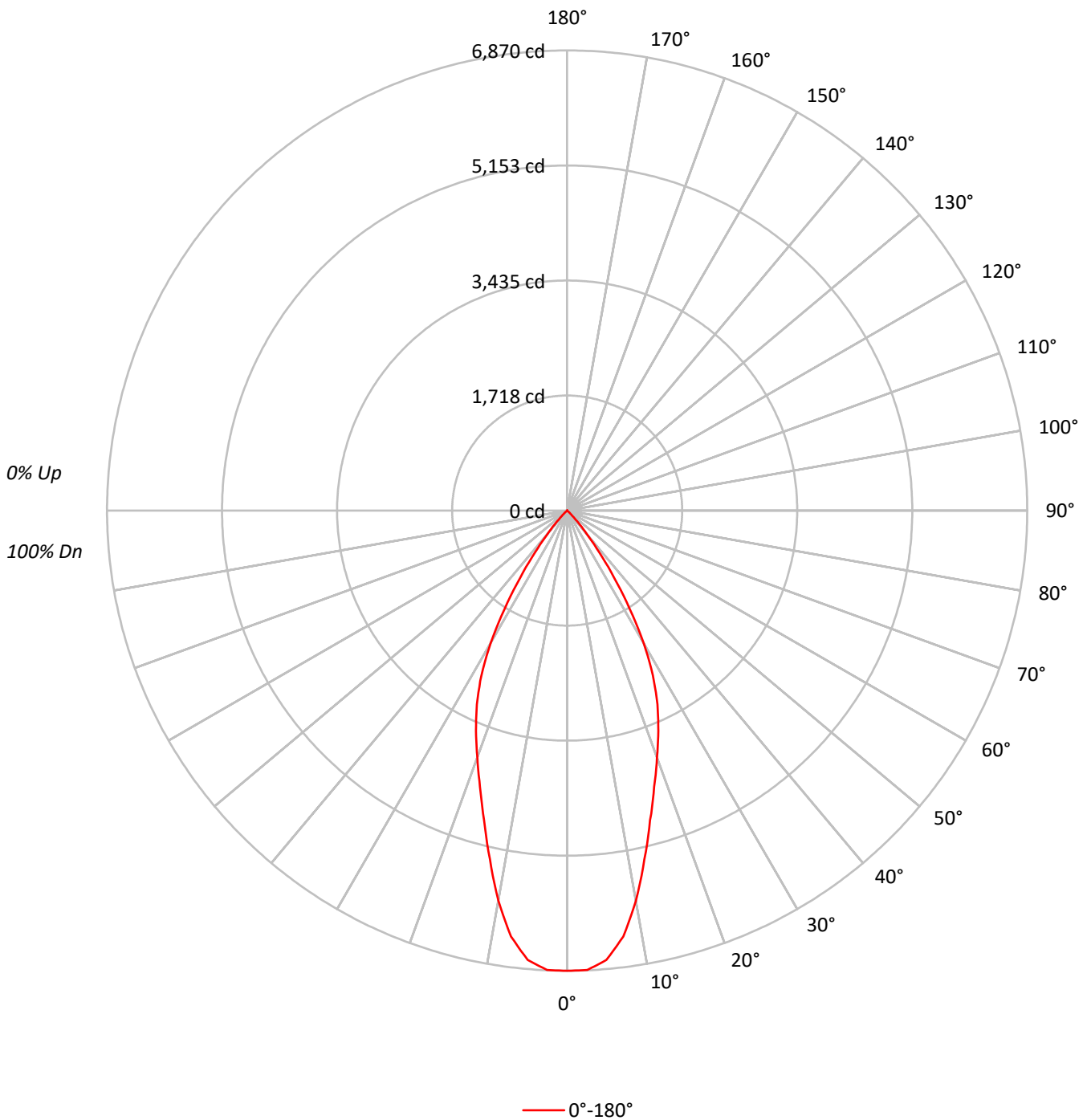
Input Watts (W): 59.5
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	
RCR																					
0	235	235	235	235	229	229	229	229	219	219	219	210	210	210	201	201	201	197	197	197	197
1	225	219	215	211	220	215	211	207	207	204	201	200	197	195	193	191	190	186	186	186	186
2	215	206	198	192	210	202	196	190	196	191	186	190	186	182	185	181	178	175	175	175	175
3	205	193	184	177	201	190	182	175	185	178	173	181	175	170	176	171	167	164	164	164	164
4	195	182	172	164	192	180	170	163	175	167	161	172	165	159	168	162	157	155	155	155	155
5	187	171	161	153	183	170	160	152	166	158	151	163	155	150	160	153	148	146	146	146	146
6	178	162	151	143	175	160	150	143	158	149	142	155	147	141	152	145	140	137	137	137	137
7	170	153	142	135	168	152	142	134	150	140	134	147	139	133	145	138	132	130	130	130	130
8	163	145	134	127	160	144	134	127	142	133	126	140	132	126	138	131	125	123	123	123	123
9	156	138	127	120	154	137	127	120	135	126	119	134	125	119	132	124	119	116	116	116	116
10	149	131	121	114	147	131	120	113	129	120	113	128	119	113	126	118	113	110	110	110	110

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	211849
5°	208454
10°	185217
15°	152821
20°	128649
25°	108540
30°	81258
35°	45960
40°	18146
45°	4893
50°	940
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°	616.2	14.3	28.2	0°	6870	
10°-20°	1343.1	31.2	61.5	5°	6734	616
20°-30°	1438.7	33.4	65.9	15°	4787	1343
30°-40°	779.6	18.1	35.7	25°	3190	1439
40°-50°	121.3	2.8	5.6	35°	1221	780
50°-60°	3.2	0.1	0.1	45°	112	121
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°	3398.1	79.0	155.7	165°	0	0
0°-40°	4177.8	97.1	191.4	175°	0	0
0°-60°	4302.3	100.0	197.1	180°	0	0
0°-90°	4303.0	100.0	197.1			
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°	4303.0	100.0	197.1			



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CANDELA DISTRIBUTION (FULL):

0°	
0°	6870.1
2.5°	6864.5
5°	6734.3
7.5°	6413.3
10°	5915.2
12.5°	5332.3
15°	4787.0
17.5°	4324.2
20°	3920.4
22.5°	3558.2
25°	3190.1
27.5°	2772.4
30°	2282.1
32.5°	1740.6
35°	1220.9
37.5°	781.9
40°	450.8
42.5°	240.2
45°	112.2
47.5°	61.2
50°	19.6
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)