

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: P251258

Luminaire Tested: **LSR8B60D010 EC8B60950 8LBN0GPH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P251258
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 EC8B60950 8LBN0GPH
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
90 CRI 5000 CCT WITH GRAPHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: 2183 (1 lamp)
Luminaire Lumens: 4653.0 lumens
Efficiency: 213.1%
Efficacy: 78.2 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

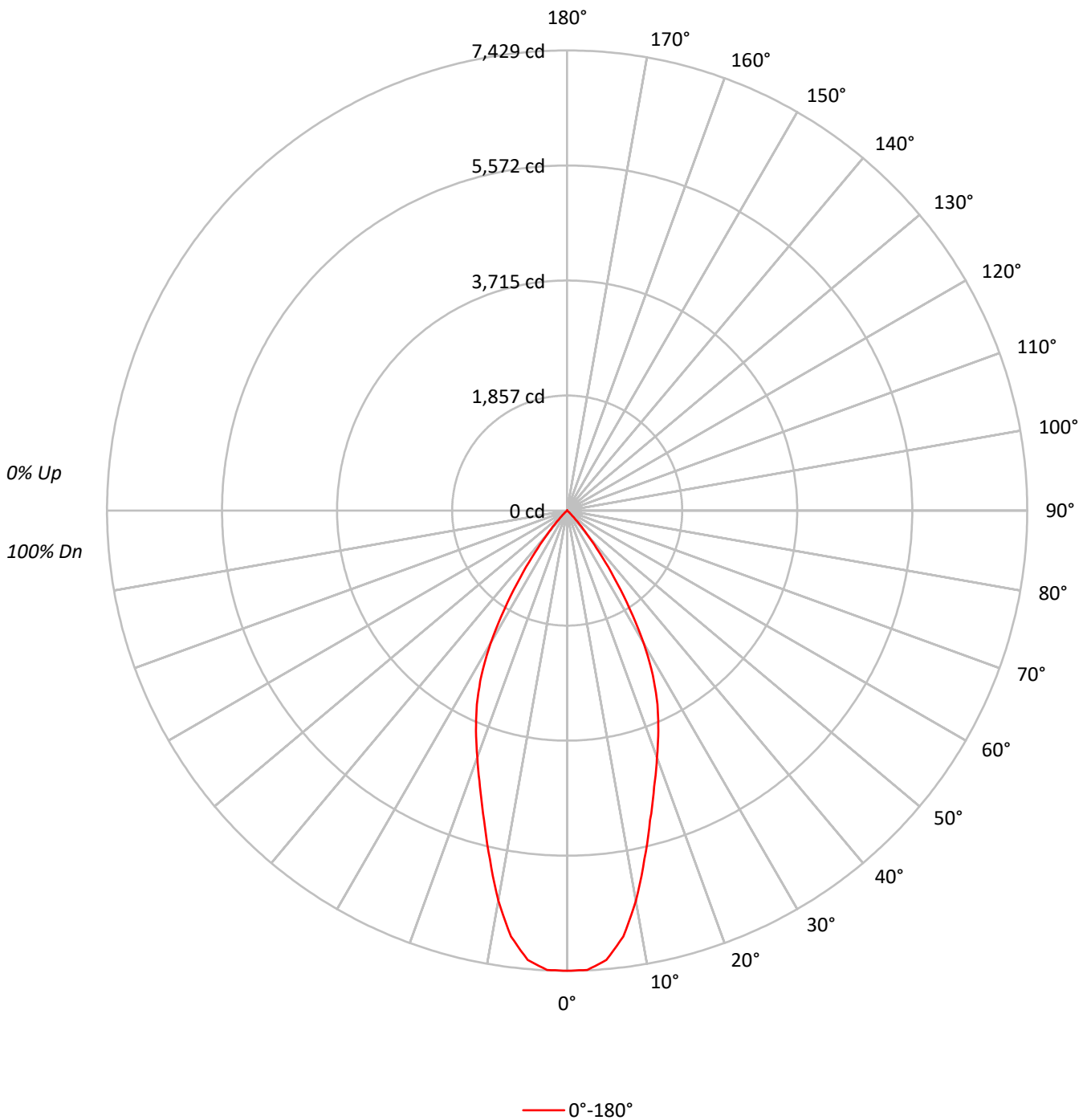
Input Watts (W): 59.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P251258

CATALOG NUMBER: LSR8B60D010 EC8B60950 8LBN0GPH

Luminous Intensity Polar Plot





TEST NUMBER: P251258

CATALOG NUMBER: LSR8B60D010 EC8B60950 8LBN0GPH

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	254	254	254	254	248	248	248	248	237	237	237	227	227	227	217	217	217	213		
1	243	237	232	228	238	233	228	224	224	221	217	216	214	211	209	207	205	201		
2	232	222	214	208	227	219	212	205	212	206	201	206	201	197	200	196	193	189		
3	221	209	199	191	217	206	197	190	200	193	187	195	189	184	191	185	181	178		
4	211	197	186	177	208	194	184	176	190	181	174	185	178	172	182	175	170	167		
5	202	185	174	165	198	183	173	165	180	170	163	176	168	162	173	166	160	157		
6	193	175	163	155	190	173	162	154	170	161	153	167	159	152	165	157	151	148		
7	184	166	154	146	181	164	153	145	162	152	144	159	150	144	157	149	143	140		
8	176	157	145	137	173	156	145	137	154	144	136	152	142	136	150	141	135	133		
9	168	149	138	130	166	148	137	129	146	136	129	144	135	129	143	134	128	126		
10	161	142	131	123	159	141	130	123	139	129	122	138	129	122	136	128	122	119		

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	229080
5°	225408
10°	200284
15°	165249
20°	139114
25°	117370
30°	87867
35°	49698
40°	19624
45°	5290
50°	1012
55°	0
60°	130
65°	0
70°	0
75°	0
80°	0
85°	0



TEST NUMBER: P251258

CATALOG NUMBER: LSR8B60D010 EC8B60950 8LBN0GPH

ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp	0°	Flux	
0°-10°	666.3	14.3	30.5	0°	7429	
10°-20°	1452.4	31.2	66.5	5°	7282	666
20°-30°	1555.8	33.4	71.3	15°	5176	1452
30°-40°	843.1	18.1	38.6	25°	3450	1556
40°-50°	131.2	2.8	6.0	35°	1320	843
50°-60°	3.4	0.1	0.2	45°	121	131
60°-70°	0.8	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°	3674.5	79.0	168.3	165°	0	0
0°-40°	4517.6	97.1	206.9	175°	0	0
0°-60°	4652.2	100.0	213.1	180°	0	0
0°-90°	4653.0	100.0	213.1			
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°	4653.0	100.0	213.1			



TEST NUMBER: P251258

CATALOG NUMBER: LSR8B60D010 EC8B60950 8LBN0GPH

CANDELA DISTRIBUTION (FULL):

0°	
0°	7428.9
2.5°	7422.8
5°	7282.0
7.5°	6934.9
10°	6396.4
12.5°	5766.0
15°	5176.3
17.5°	4675.9
20°	4239.3
22.5°	3847.6
25°	3449.6
27.5°	2997.9
30°	2467.7
32.5°	1882.2
35°	1320.2
37.5°	845.5
40°	487.5
42.5°	259.8
45°	121.3
47.5°	66.2
50°	21.1
52.5°	2.1
55°	0.0
57.5°	2.1
60°	2.1
62.5°	0.0
65°	0.0
67.5°	2.1
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



TEST NUMBER: P251258

CATALOG NUMBER: LSR8B60D010 EC8B60950 8LBN0GPH

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)