

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: P251354

Luminaire Tested: **LSR8B60D010 EC8B60835 8LBN0B**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P251354  
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 EC8B60835 8LBN0B  
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
80 CRI 3500 CCT WITH SPECULAR BLACK TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: 1887 (1 lamp)  
Luminaire Lumens: 3587.0 lumens  
Efficiency: 190.1%  
Efficacy: 60.3 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

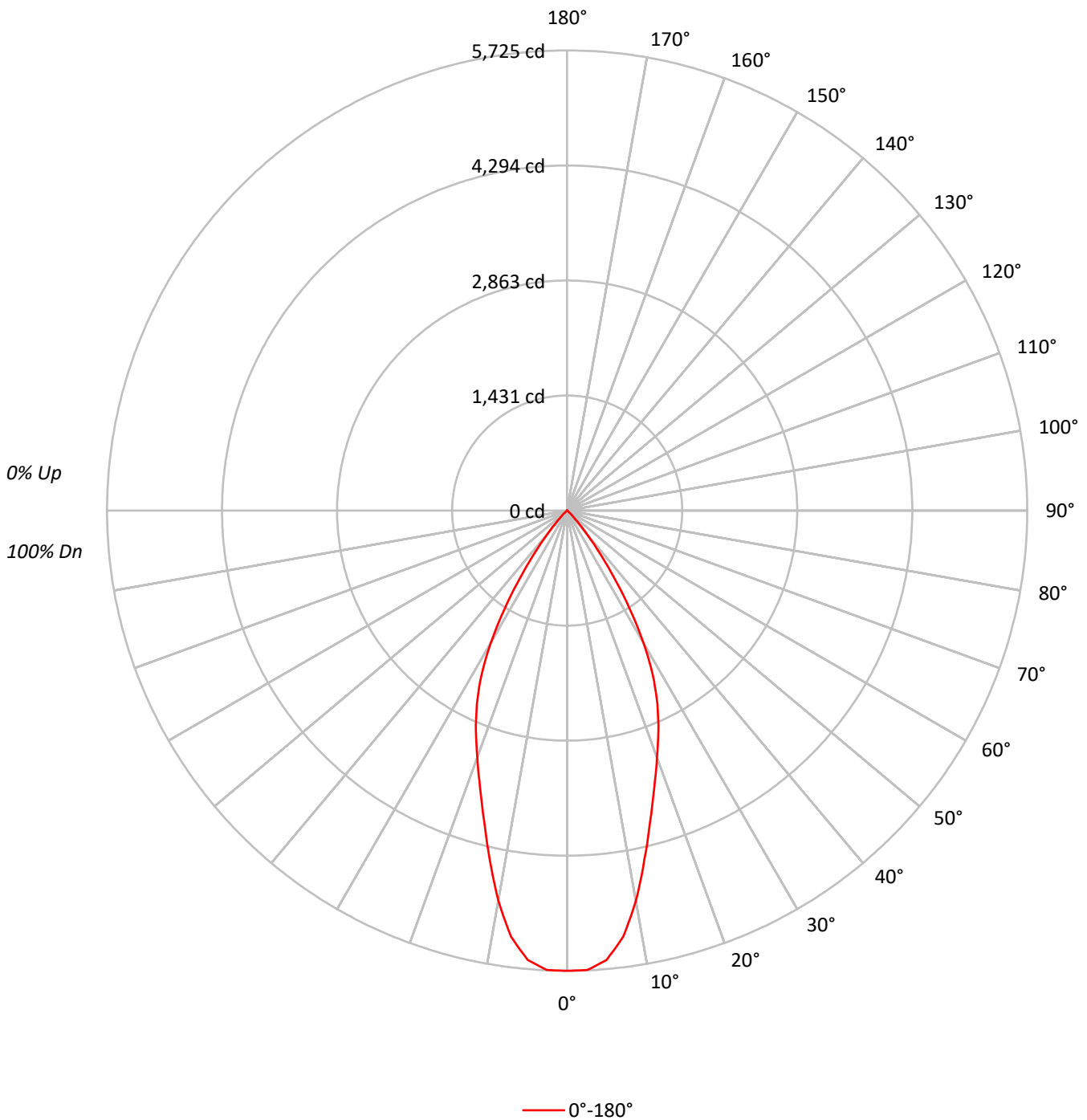
Input Watts (W): 59.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P251354

CATALOG NUMBER: LSR8B60D010 EC8B60835 8LBN0B

### Luminous Intensity Polar Plot





TEST NUMBER: P251354

CATALOG NUMBER: LSR8B60D010 EC8B60835 8LBN0B

**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	226	226	226	226	221	221	221	221	211	211	211	202	202	202	194	194	194	190
1	217	212	207	203	212	208	204	200	200	197	194	193	190	188	186	185	183	179
2	207	198	191	185	203	195	189	183	189	184	179	183	179	175	178	175	172	169
3	197	186	177	171	194	184	176	169	179	172	166	174	169	164	170	165	161	159
4	188	175	166	158	185	173	164	157	169	161	155	165	159	154	162	156	152	149
5	180	165	155	147	177	164	154	147	160	152	146	157	150	144	154	148	143	140
6	172	156	146	138	169	155	145	138	152	143	137	149	142	136	147	140	135	132
7	164	148	137	130	162	147	137	129	144	135	129	142	134	128	140	133	127	125
8	157	140	130	122	155	139	129	122	137	128	122	135	127	121	133	126	121	118
9	150	133	123	116	148	132	122	115	130	121	115	129	121	115	127	120	114	112
10	144	127	116	110	142	126	116	109	124	115	109	123	115	109	122	114	109	106

**AVERAGE LUMINANCE (cd/sqm):**

	0°
0°	176550
5°	173761
10°	154362
15°	127371
20°	107247
25°	90460
30°	67756
35°	38322
40°	15131
45°	4047
50°	816
55°	0
60°	117
65°	0
70°	0
75°	0
80°	0
85°	0



TEST NUMBER: P251354

CATALOG NUMBER: LSR8B60D010 EC8B60835 8LBN0B

**ZONAL LUMENS:**

**CANDELA DISTRIBUTION:**

Zone	Lumens	% Fixture	% Lamp	0°	Flux	
0°-10°	513.6	14.3	27.2	0°	5725	
10°-20°	1119.6	31.2	59.3	5°	5614	514
20°-30°	1199.3	33.4	63.6	15°	3990	1120
30°-40°	650.0	18.1	34.4	25°	2659	1199
40°-50°	100.9	2.8	5.3	35°	1018	650
50°-60°	2.9	0.1	0.2	45°	93	101
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°	2832.5	79.0	150.1	165°	0	0
0°-40°	3482.5	97.1	184.6	175°	0	0
0°-60°	3586.3	100.0	190.1	180°	0	0
0°-90°	3587.0	100.0	190.1			
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°	3587.0	100.0	190.1			



TEST NUMBER: P251354

CATALOG NUMBER: LSR8B60D010 EC8B60835 8LBN0B

**CANDELA DISTRIBUTION (FULL):**

0°	
0°	5725.4
2.5°	5721.7
5°	5613.5
7.5°	5345.7
10°	4929.8
12.5°	4445.5
15°	3989.8
17.5°	3604.3
20°	3268.2
22.5°	2966.2
25°	2658.7
27.5°	2311.1
30°	1902.9
32.5°	1450.9
35°	1018.0
37.5°	651.6
40°	375.9
42.5°	201.2
45°	92.8
47.5°	49.3
50°	17.0
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



TEST NUMBER: P251354

CATALOG NUMBER: LSR8B60D010 EC8B60835 8LBN0B

**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)