

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: P251246

Luminaire Tested: **LSR8B60D010 EC8B60840 8LBN0GPH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P251246  
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 EC8B60840 8LBN0GPH  
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
80 CRI 4000 CCT WITH GRAPHITE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: 2183 (1 lamp)  
Luminaire Lumens: 5013.0 lumens  
Efficiency: 229.6%  
Efficacy: 84.3 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

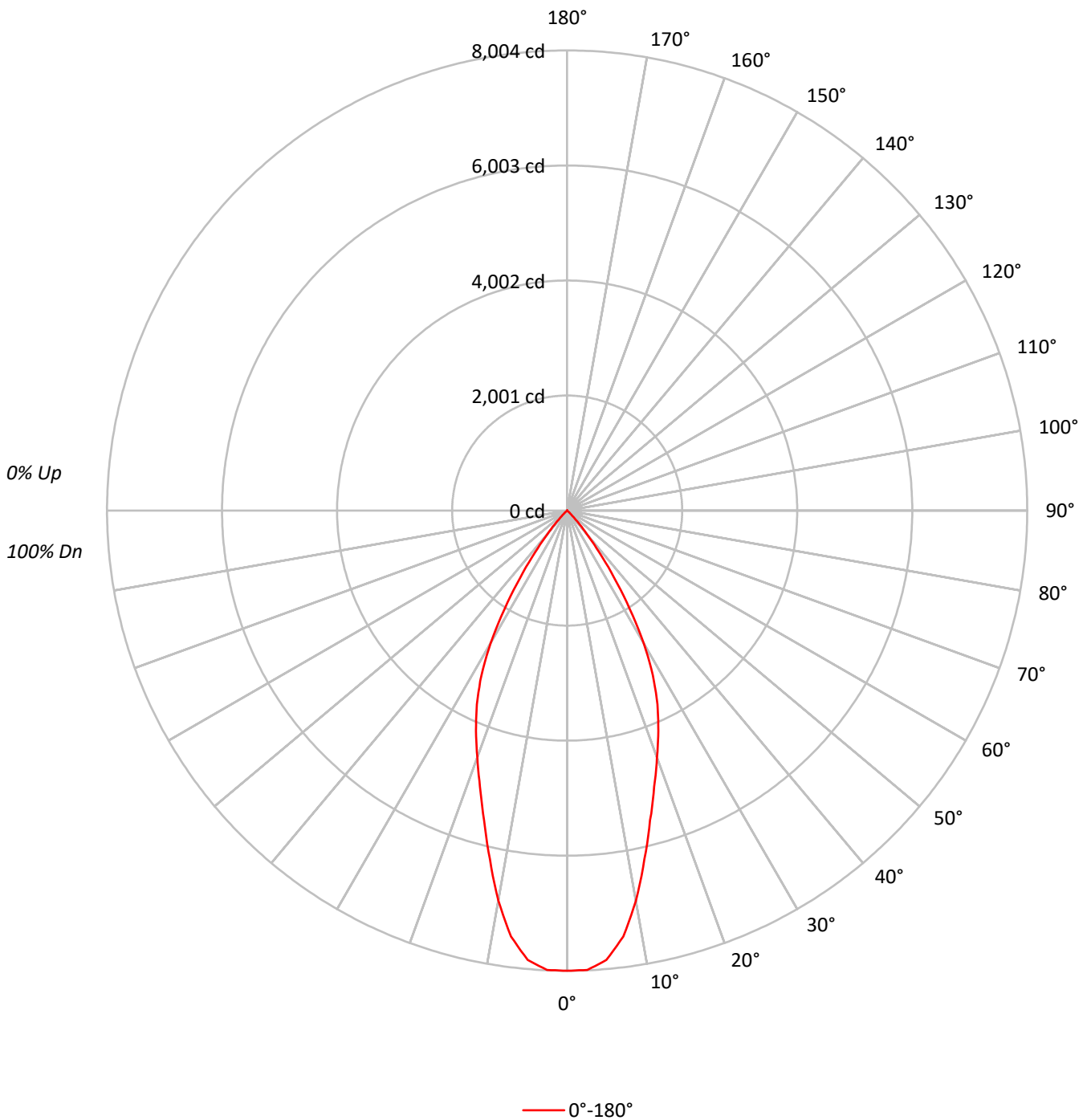
Input Watts (W): 59.5  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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							
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	273	273	273	273	267	267	267	267	255	255	255	244	244	244	234	234	234	230
1	262	256	250	246	256	251	246	242	242	238	234	233	230	227	225	223	221	217
2	250	240	231	224	245	236	228	221	228	222	216	222	216	212	215	211	207	204
3	239	225	214	206	234	222	212	204	216	208	201	210	204	198	205	200	195	192
4	228	212	200	191	224	209	198	190	204	195	188	200	192	186	196	189	183	180
5	217	200	187	178	214	198	186	177	194	183	176	190	181	174	186	179	173	170
6	208	189	176	167	204	187	175	166	184	173	165	180	171	164	177	169	163	160
7	198	179	166	157	195	177	165	156	174	163	156	172	162	155	169	161	154	151
8	190	169	157	148	187	168	156	148	166	155	147	163	154	146	161	152	146	143
9	181	161	148	140	179	160	148	140	158	147	139	156	146	139	154	145	138	135
10	174	153	141	132	172	152	140	132	150	139	132	149	139	132	147	138	131	128

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

	0°
0°	246805
5°	242850
10°	215777
15°	178034
20°	149877
25°	126451
30°	94664
35°	53541
40°	21141
45°	5700
50°	1094
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°	717.9	14.3	32.9	0°	8004	
10°-20°	1564.8	31.2	71.7	5°	7846	718
20°-30°	1676.1	33.4	76.8	15°	5577	1565
30°-40°	908.3	18.1	41.6	25°	3716	1676
40°-50°	141.4	2.8	6.5	35°	1422	908
50°-60°	3.7	0.1	0.2	45°	131	141
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°	3958.8	79.0	181.3	165°	0	0
0°-40°	4867.1	97.1	223.0	175°	0	0
0°-60°	5012.2	100.0	229.6	180°	0	0
0°-90°	5013.0	100.0	229.6			
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°	5013.0	100.0	229.6			



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	8003.7
2.5°	7997.1
5°	7845.5
7.5°	7471.5
10°	6891.2
12.5°	6212.1
15°	5576.8
17.5°	5037.6
20°	4567.3
22.5°	4145.3
25°	3716.5
27.5°	3229.8
30°	2658.6
32.5°	2027.8
35°	1422.3
37.5°	910.9
40°	525.2
42.5°	279.9
45°	130.7
47.5°	71.3
50°	22.8
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)