

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: P245609

Luminaire Tested: **LD8B50D010 ER8B50830 8LBN0GPH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P245609  
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: LD8B50D010 ER8B50830 8LBN0GPH  
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED  
DOWNLIGHT  
80 CRI 3000 CCT WITH GRAPHITE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: 2183 (1 lamp)  
Luminaire Lumens: 4283.0 lumens  
Efficiency: 196.2%  
Efficacy: 80.8 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

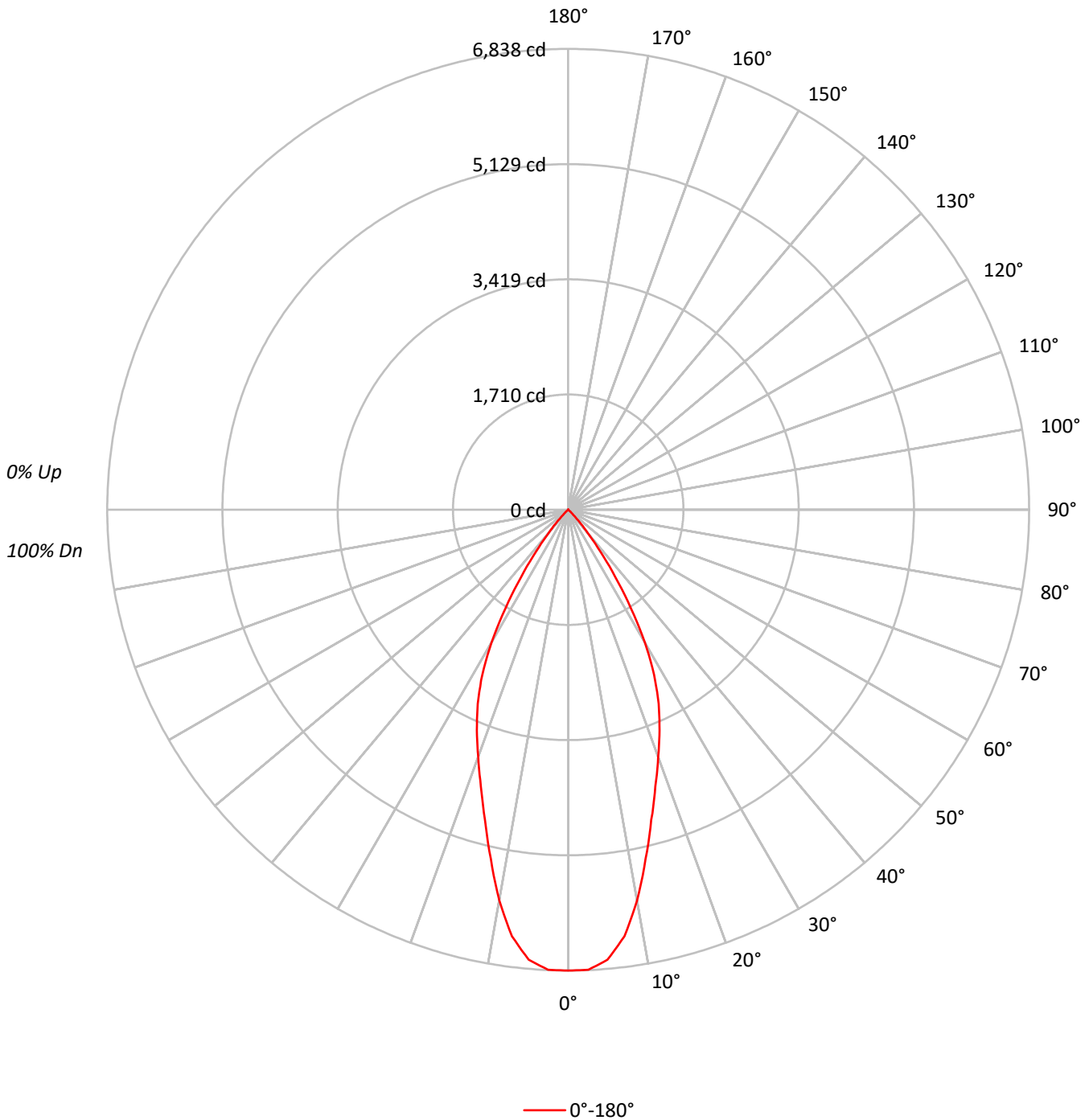
Input Watts (W): 53  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20				20				20	
RC	80				70				50				30				10	
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	
RCR																		
0	234	234	234	234	228	228	228	228	218	218	218	209	209	209	200	200	200	196
1	224	218	214	210	219	214	210	207	206	203	200	199	197	194	192	190	189	185
2	214	205	197	191	209	201	195	189	195	190	185	189	185	181	184	180	177	174
3	204	192	183	176	200	190	181	175	184	178	172	180	174	169	175	171	167	164
4	195	181	171	163	191	179	169	162	175	167	160	171	164	159	167	161	157	154
5	186	171	160	152	183	169	159	152	165	157	150	162	155	149	159	153	148	145
6	177	161	150	143	175	160	149	142	157	148	141	154	146	140	152	145	139	137
7	169	153	142	134	167	151	141	134	149	140	133	147	138	132	144	137	132	129
8	162	145	134	126	160	144	133	126	141	132	126	140	131	125	138	130	125	122
9	155	137	127	119	153	136	126	119	135	125	119	133	125	118	131	124	118	116
10	148	131	120	113	147	130	120	113	128	119	113	127	118	112	126	118	112	110

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

	0°
0°	210865
5°	207485
10°	184356
15°	152109
20°	128052
25°	108037
30°	80881
35°	45745
40°	18062
45°	4867
50°	935
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°	613.4	14.3	28.1	0°	6838	
10°-20°	1336.9	31.2	61.2	5°	6703	613
20°-30°	1432.1	33.4	65.6	15°	4765	1337
30°-40°	776.0	18.1	35.5	25°	3175	1432
40°-50°	120.8	2.8	5.5	35°	1215	776
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°	3382.3	79.0	154.9	165°	0	0
0°-40°	4158.3	97.1	190.5	175°	0	0
0°-60°	4282.3	100.0	196.2	180°	0	0
0°-90°	4283.0	100.0	196.2			
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°	4283.0	100.0	196.2			



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	6838.2
2.5°	6832.6
5°	6703.0
7.5°	6383.5
10°	5887.7
12.5°	5307.5
15°	4764.7
17.5°	4304.1
20°	3902.2
22.5°	3541.6
25°	3175.3
27.5°	2759.5
30°	2271.5
32.5°	1732.5
35°	1215.2
37.5°	778.3
40°	448.7
42.5°	239.1
45°	111.6
47.5°	61.0
50°	19.5
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)