

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: P246364

Luminaire Tested: **LD8B40D010 ER8B40935 8LBN0B**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P246364  
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: LD8B40D010 ER8B40935 8LBN0B  
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED  
DOWNLIGHT  
90 CRI 3500 CCT WITH SPECULAR BLACK TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: 1887 (1 lamp)  
Luminaire Lumens: 2158.0 lumens  
Efficiency: 114.4%  
Efficacy: 52.8 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

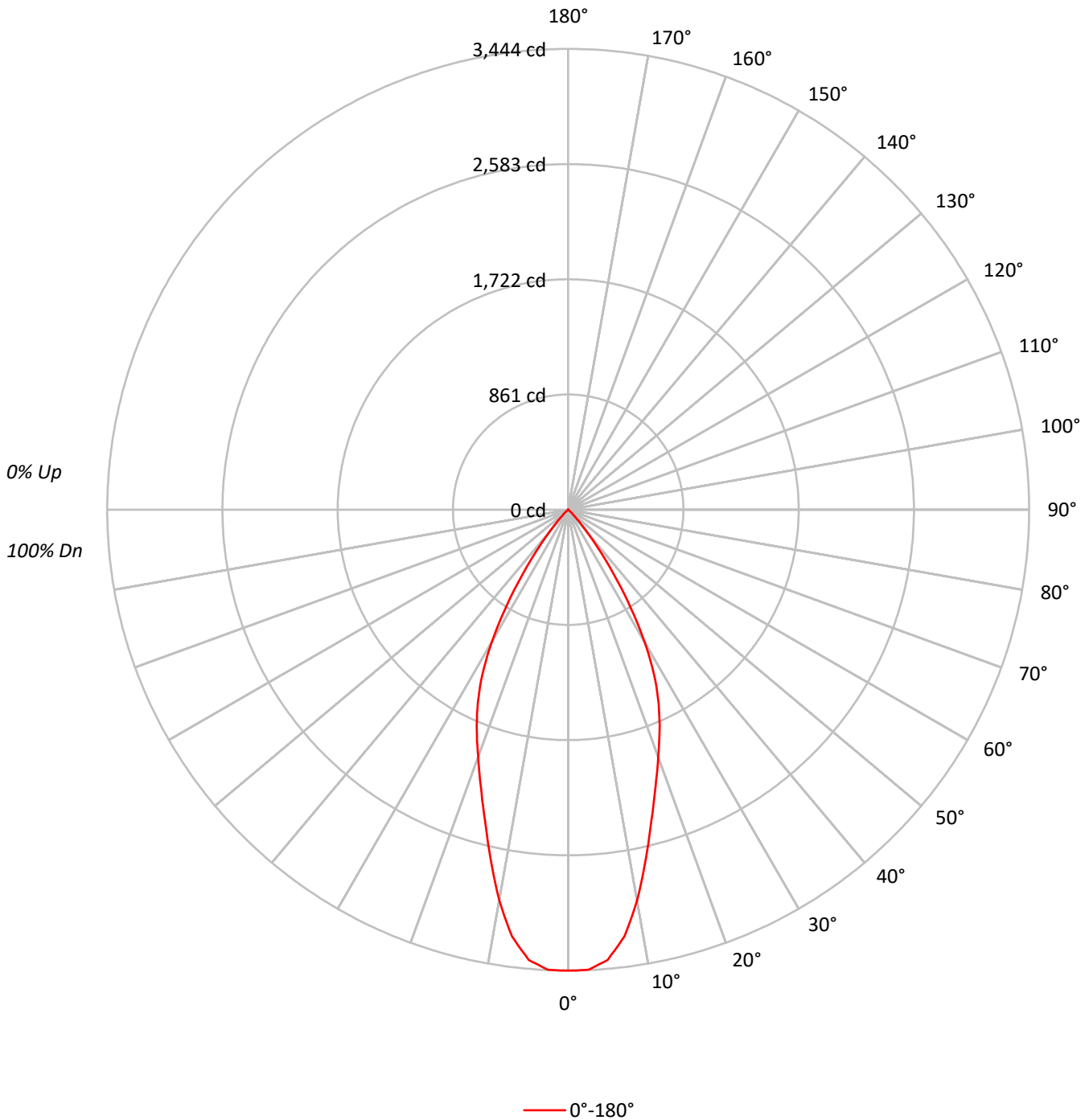
Input Watts (W): 40.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	136	136	136	136	133	133	133	133	127	127	127	122	122	122	117	117	117	114	114	114
1	130	127	125	122	128	125	123	120	120	118	117	116	115	113	112	111	110	108	108	108
2	124	119	115	111	122	117	113	110	114	111	108	110	108	105	107	105	103	101	101	101
3	119	112	107	103	117	110	106	102	108	103	100	105	101	99	102	99	97	95	95	95
4	113	105	100	95	111	104	99	95	102	97	93	100	96	92	97	94	91	90	90	90
5	108	99	93	89	106	98	93	88	96	91	88	95	90	87	93	89	86	84	84	84
6	103	94	88	83	102	93	87	83	91	86	82	90	85	82	88	84	81	80	80	80
7	99	89	83	78	97	88	82	78	87	81	77	85	81	77	84	80	77	75	75	75
8	94	84	78	74	93	84	78	73	82	77	73	81	76	73	80	76	73	71	71	71
9	90	80	74	70	89	80	74	69	78	73	69	78	73	69	77	72	69	67	67	67
10	86	76	70	66	85	76	70	66	75	69	66	74	69	65	73	69	65	64	64	64

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

	0°
0°	106216
5°	104538
10°	92868
15°	76627
20°	64521
25°	54422
30°	40763
35°	23053
40°	9105
45°	2438
50°	489
55°	0
60°	68
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°	309.0	14.3	16.4	0°	3444	
10°-20°	673.6	31.2	35.7	5°	3377	309
20°-30°	721.5	33.4	38.2	15°	2400	674
30°-40°	391.0	18.1	20.7	25°	1600	722
40°-50°	60.8	2.8	3.2	35°	612	391
50°-60°	1.7	0.1	0.1	45°	56	61
60°-70°	0.4	0.0	0.0	55°	0	2
70°-80°	0.0	0.0	0.0	65°	0	0
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°	1704.1	79.0	90.3	165°	0	0
0°-40°	2095.1	97.1	111.0	175°	0	0
0°-60°	2157.6	100.0	114.3	180°	0	0
0°-90°	2158.0	100.0	114.4			
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°	2158.0	100.0	114.4			



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	3444.5
2.5°	3442.3
5°	3377.2
7.5°	3216.1
10°	2965.9
12.5°	2674.5
15°	2400.3
17.5°	2168.4
20°	1966.2
22.5°	1784.5
25°	1599.5
27.5°	1390.4
30°	1144.8
32.5°	872.9
35°	612.4
37.5°	392.0
40°	226.2
42.5°	121.1
45°	55.9
47.5°	29.7
50°	10.2
52.5°	1.1
55°	0.0
57.5°	1.1
60°	1.1
62.5°	0.0
65°	0.0
67.5°	1.1
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



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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)