

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: P246388

Luminaire Tested: **LD8B40D010 ER8B40930 8LBN0B**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P246388  
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 ER8B40930 8LBN0B  
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED  
DOWNLIGHT  
97 CRI 3000 CCT WITH SPECULAR BLACK TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: 1887 (1 lamp)  
Luminaire Lumens: 2089.5 lumens  
Efficiency: 110.7%  
Efficacy: 51.1 lumens/watt  
Spacing Criteria (0/90/45): 0.69 / 0.69 / 0.77  
Luminous Opening: Point Source (0' x 0' x 0')  
CIE Type: Direct

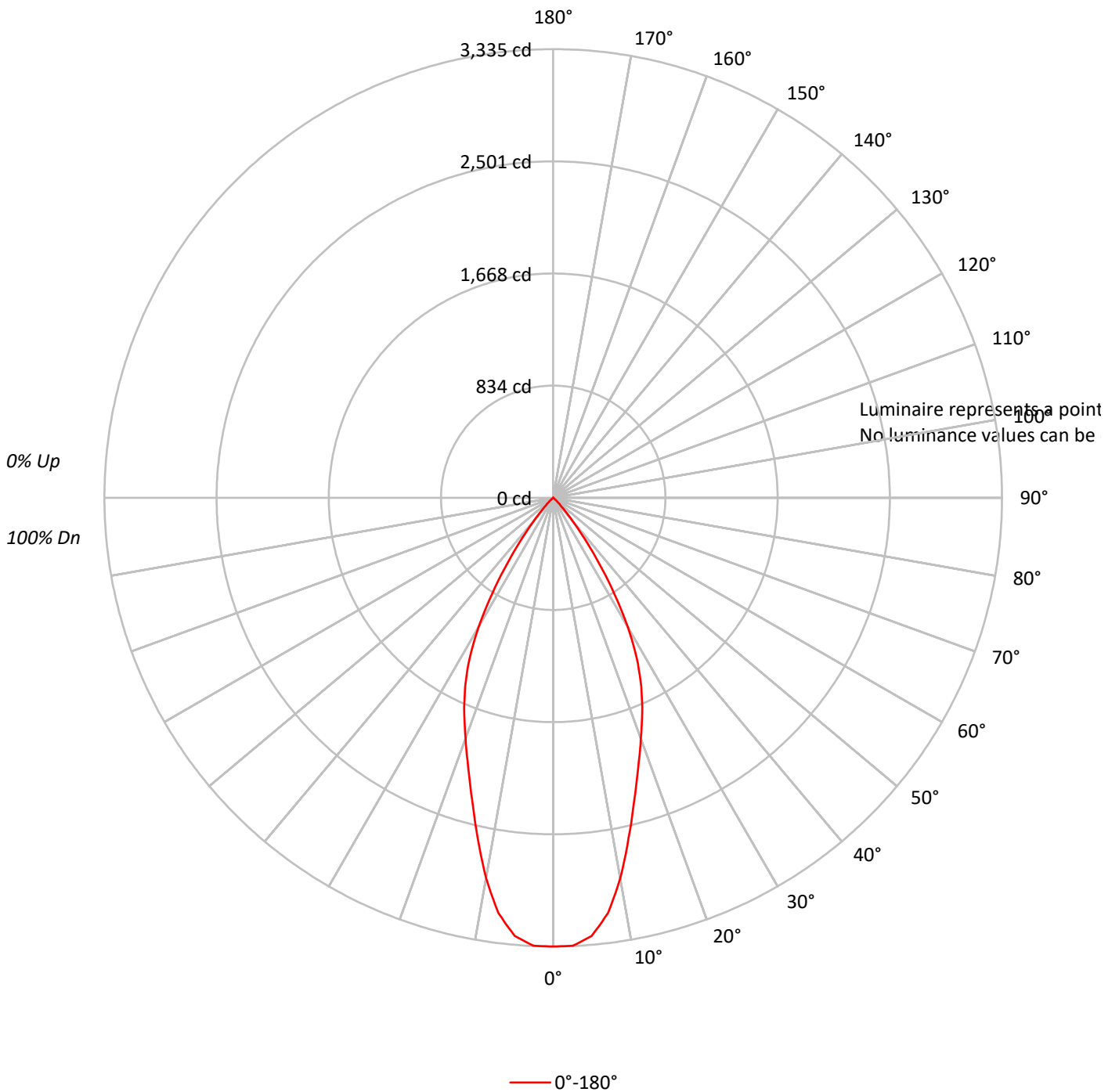
Input Watts (W): 40.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	0		
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50	30	10	0
RCR																				
0	132	132	132	132	129	129	129	129	123	123	123		118	118	118		113	113	113	111
1	126	123	121	118	123	121	119	117	116	115	113		112	111	110		109	107	106	105
2	121	116	111	108	118	114	110	107	110	107	104		107	104	102		104	102	100	98
3	115	108	103	99	113	107	102	99	104	100	97		101	98	95		99	96	94	92
4	110	102	96	92	108	101	96	92	99	94	91		96	93	89		94	91	88	87
5	105	96	90	86	103	95	90	86	93	88	85		92	87	84		90	86	83	82
6	100	91	85	80	99	90	84	80	88	83	80		87	83	79		86	82	79	77
7	96	86	80	76	94	85	80	75	84	79	75		83	78	75		82	77	74	73
8	91	82	75	71	90	81	75	71	80	75	71		79	74	71		78	73	70	69
9	87	78	71	67	86	77	71	67	76	71	67		75	70	67		74	70	67	65
10	84	74	68	64	83	73	68	64	72	67	64		72	67	63		71	66	63	62

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





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**ZONAL LUMENS:**

**CANDELA DISTRIBUTION:**

Zone	Lumens	% Fixture	% Lamp	0°	Flux	
0°-10°	299.2	14.3	15.9	0°	3335	
10°-20°	652.2	31.2	34.6	5°	3270	299
20°-30°	698.6	33.4	37.0	15°	2324	652
30°-40°	378.6	18.1	20.1	25°	1549	699
40°-50°	58.8	2.8	3.1	35°	593	379
50°-60°	1.7	0.1	0.1	45°	54	59
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°	1650.0	79.0	87.4	165°	0	0
0°-40°	2028.7	97.1	107.5	175°	0	0
0°-60°	2089.1	100.0	110.7	180°	0	0
0°-90°	2089.5	100.0	110.7			
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°	2089.5	100.0	110.7			



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	3335.2
2.5°	3333.1
5°	3270.1
7.5°	3114.0
10°	2871.8
12.5°	2589.6
15°	2324.2
17.5°	2099.6
20°	1903.8
22.5°	1727.9
25°	1548.8
27.5°	1346.3
30°	1108.4
32.5°	845.2
35°	593.0
37.5°	379.6
40°	219.0
42.5°	117.3
45°	54.0
47.5°	28.7
50°	9.9
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)