

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 ER8B409730 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 ER8B409730 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: 1864.0 lumens
Efficiency: 98.8%
Efficacy: 45.6 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

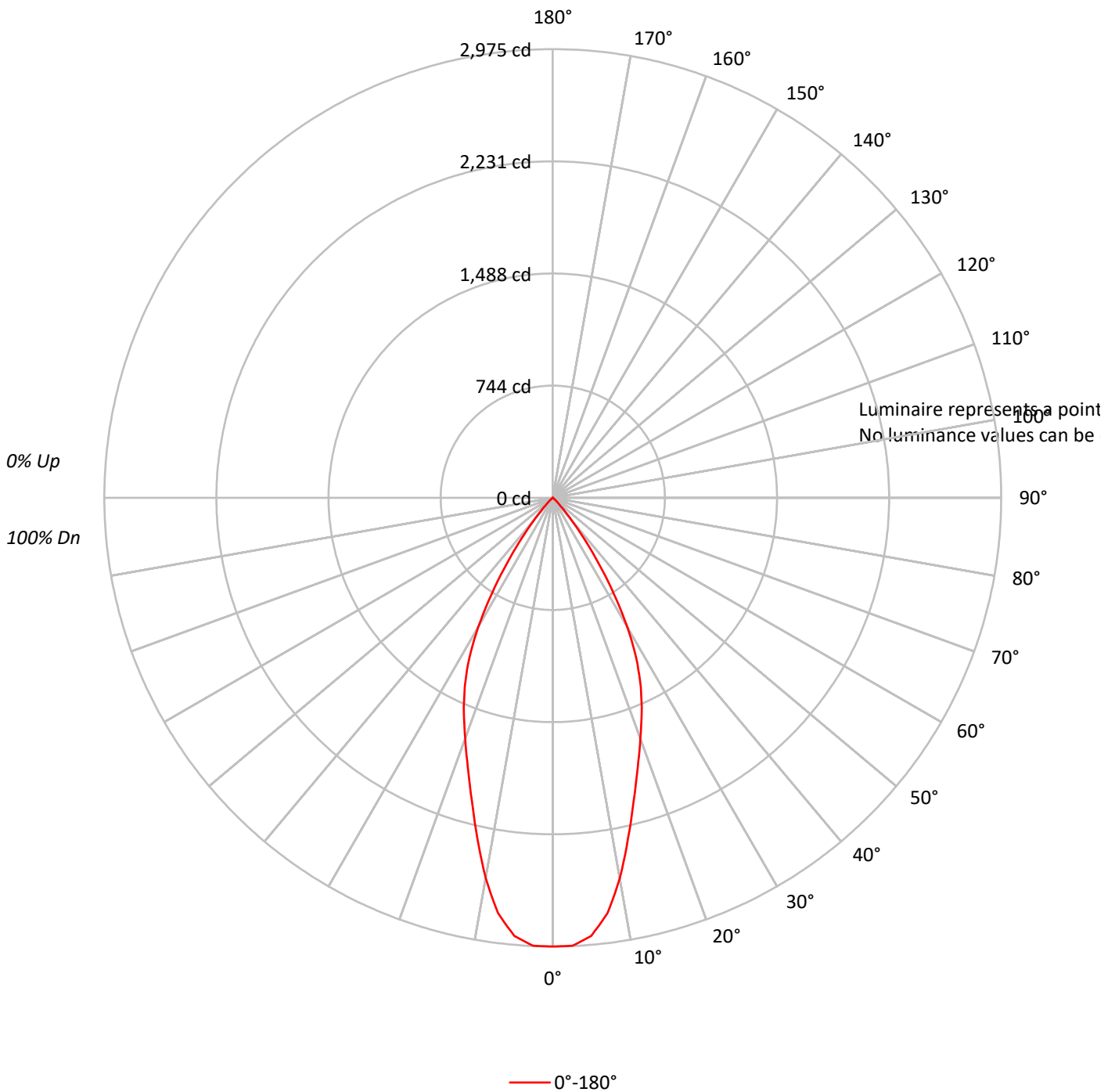
Input Watts (W): 40.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P246388

CATALOG NUMBER: LD8B40D010 ER8B409730 8LBN0B

Luminous Intensity Polar Plot





TEST NUMBER: P246388

CATALOG NUMBER: LD8B40D010 ER8B409730 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	118	118	118	118	115	115	115	115	110	110	110	105	105	105	101	101	101	99
1	113	110	108	106	110	108	106	104	104	102	101	100	99	98	97	96	95	93
2	108	103	99	96	105	101	98	95	98	95	93	95	93	91	93	91	89	88
3	103	97	92	89	101	95	91	88	93	89	87	91	88	85	88	86	84	82
4	98	91	86	82	96	90	85	82	88	84	81	86	83	80	84	81	79	77
5	93	86	81	77	92	85	80	76	83	79	76	82	78	75	80	77	74	73
6	89	81	76	72	88	80	75	72	79	74	71	78	74	71	76	73	70	69
7	85	77	71	67	84	76	71	67	75	70	67	74	70	67	73	69	66	65
8	82	73	67	64	80	72	67	63	71	67	63	70	66	63	69	66	63	61
9	78	69	64	60	77	69	64	60	68	63	60	67	63	60	66	62	59	58
10	75	66	60	57	74	65	60	57	65	60	57	64	60	57	63	59	56	55

AVERAGE LUMINANCE (cd/sqm):





TEST NUMBER: P246388

CATALOG NUMBER: LD8B40D010 ER8B409730 8LBN0B

ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp	0°	Flux	
0°-10°	266.9	14.3	14.1	0°	2975	
10°-20°	581.8	31.2	30.8	5°	2917	267
20°-30°	623.2	33.4	33.0	15°	2073	582
30°-40°	337.8	18.1	17.9	25°	1382	623
40°-50°	52.4	2.8	2.8	35°	529	338
50°-60°	1.5	0.1	0.1	45°	48	52
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°	1471.9	79.0	78.0	165°	0	0
0°-40°	1809.7	97.1	95.9	175°	0	0
0°-60°	1863.6	100.0	98.8	180°	0	0
0°-90°	1864.0	100.0	98.8			
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°	1864.0	100.0	98.8			



TEST NUMBER: P246388

CATALOG NUMBER: LD8B40D010 ER8B409730 8LBN0B

CANDELA DISTRIBUTION (FULL):

0°	
0°	2975.2
2.5°	2973.3
5°	2917.1
7.5°	2777.9
10°	2561.8
12.5°	2310.1
15°	2073.3
17.5°	1873.0
20°	1698.3
22.5°	1541.4
25°	1381.6
27.5°	1201.0
30°	988.8
32.5°	754.0
35°	529.0
37.5°	338.6
40°	195.4
42.5°	104.6
45°	48.2
47.5°	25.6
50°	8.8
52.5°	1.0
55°	0.0
57.5°	1.0
60°	1.0
62.5°	0.0
65°	0.0
67.5°	1.0
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: P246388

CATALOG NUMBER: LD8B40D010 ER8B409730 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)