

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: P246322

Luminaire Tested: **LD8B40D010 ER8B40827 8LBN0B**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P246322
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 ER8B40827 8LBN0B
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED
DOWNLIGHT
80 CRI 2700 CCT WITH SPECULAR BLACK TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: 1887 (1 lamp)
Luminaire Lumens: 2373.9 lumens
Efficiency: 125.8%
Efficacy: 58.0 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

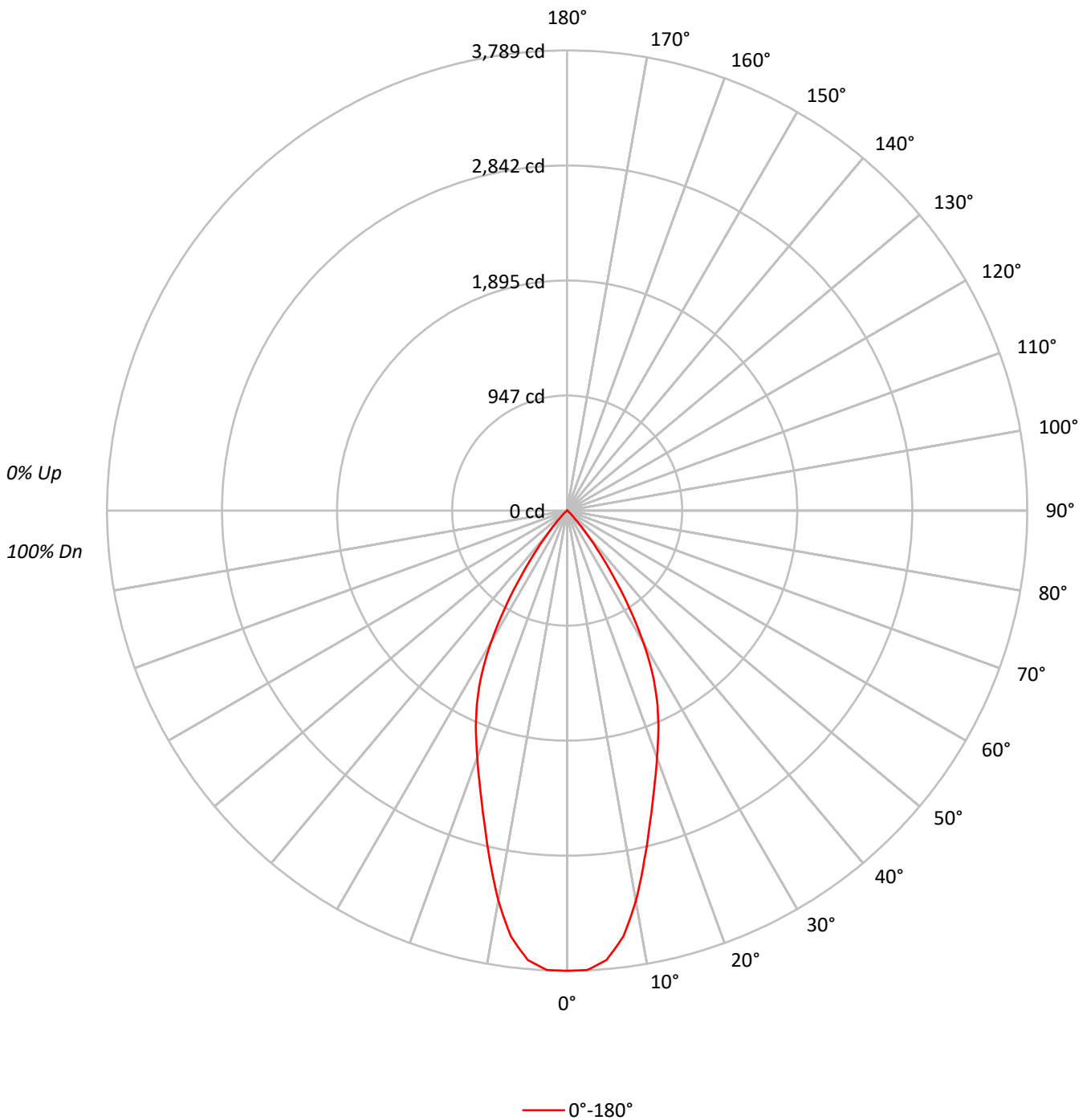
Input Watts (W): 40.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	150	150	150	150	146	146	146	146	140	140	140	134	134	134	128	128	128	126
1	143	140	137	135	140	137	135	132	132	130	128	128	126	125	123	122	121	119
2	137	131	127	123	134	129	125	121	125	122	119	121	119	116	118	116	114	112
3	131	123	117	113	128	122	116	112	118	114	110	115	112	108	112	109	107	105
4	125	116	110	105	123	115	109	104	112	107	103	109	105	102	107	104	100	99
5	119	109	103	98	117	108	102	97	106	101	96	104	99	95	102	98	95	93
6	114	103	96	91	112	102	96	91	101	95	90	99	94	90	97	93	89	88
7	109	98	91	86	107	97	90	86	95	90	85	94	89	85	93	88	84	83
8	104	93	86	81	102	92	85	81	91	85	80	89	84	80	88	83	80	78
9	99	88	81	77	98	87	81	76	86	80	76	85	80	76	84	79	76	74
10	95	84	77	73	94	83	77	72	82	76	72	81	76	72	80	75	72	70

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	116848
5°	115001
10°	102162
15°	84299
20°	70980
25°	59869
30°	44843
35°	25361
40°	10015
45°	2678
50°	537
55°	0
60°	74
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°	339.9	14.3	18.0	0°	3789	
10°-20°	741.0	31.2	39.3	5°	3715	340
20°-30°	793.8	33.4	42.1	15°	2641	741
30°-40°	430.1	18.1	22.8	25°	1760	794
40°-50°	66.8	2.8	3.5	35°	674	430
50°-60°	1.9	0.1	0.1	45°	61	67
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°	1874.7	79.0	99.3	165°	0	0
0°-40°	2304.8	97.1	122.1	175°	0	0
0°-60°	2373.5	100.0	125.8	180°	0	0
0°-90°	2373.9	100.0	125.8			
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°	2373.9	100.0	125.8			



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CANDELA DISTRIBUTION (FULL):

0°	
0°	3789.3
2.5°	3786.8
5°	3715.2
7.5°	3538.0
10°	3262.7
12.5°	2942.2
15°	2640.6
17.5°	2385.5
20°	2163.0
22.5°	1963.1
25°	1759.6
27.5°	1529.6
30°	1259.4
32.5°	960.2
35°	673.7
37.5°	431.2
40°	248.8
42.5°	133.2
45°	61.4
47.5°	32.6
50°	11.2
52.5°	1.2
55°	0.0
57.5°	1.2
60°	1.2
62.5°	0.0
65°	0.0
67.5°	1.2
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)