

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: P245668

Luminaire Tested: **LD8B40D010 ER8B409730 8LBN0GPH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P245668
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: LD8B40D010 ER8B409730 8LBN0GPH
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED
DOWNLIGHT
97 CRI 3000 CCT WITH GRAPHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: 2183 (1 lamp)
Luminaire Lumens: 2623.0 lumens
Efficiency: 120.2%
Efficacy: 64.1 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

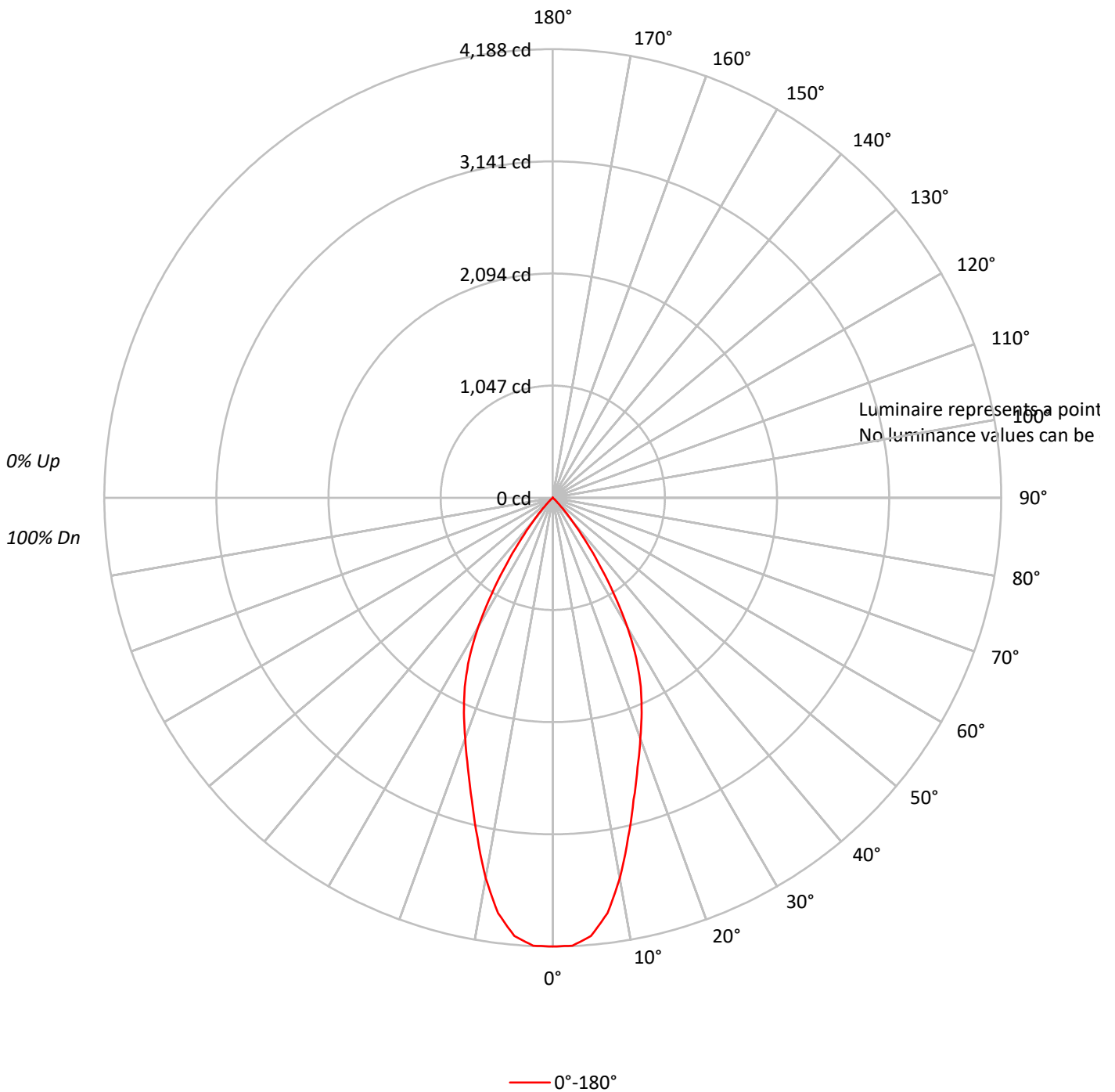
Input Watts (W): 40.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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			
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	143	143	143	143	140	140	140	140	134	134	134	128	128	128	123	123	123	120	120	120
1	137	134	131	129	134	131	129	126	126	124	123	122	120	119	118	117	116	113	113	113
2	131	125	121	117	128	123	119	116	119	116	113	116	113	111	113	110	109	107	107	107
3	125	118	112	108	123	116	111	107	113	109	105	110	107	104	107	105	102	100	100	100
4	119	111	105	100	117	109	104	99	107	102	98	105	100	97	102	99	96	94	94	94
5	114	104	98	93	112	103	97	93	101	96	92	99	95	91	97	94	90	89	89	89
6	109	99	92	87	107	98	92	87	96	91	86	94	90	86	93	89	85	84	84	84
7	104	93	87	82	102	93	86	82	91	86	81	90	85	81	88	84	81	79	79	79
8	99	89	82	77	98	88	82	77	87	81	77	85	80	77	84	80	76	75	75	75
9	95	84	78	73	94	84	77	73	82	77	73	81	76	73	80	76	72	71	71	71
10	91	80	74	69	90	80	73	69	79	73	69	78	73	69	77	72	69	67	67	67

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp	0°	Flux	
0°-10°	375.6	14.3	17.2	0°	4188	
10°-20°	818.7	31.2	37.5	5°	4105	376
20°-30°	877.0	33.4	40.2	15°	2918	819
30°-40°	475.2	18.1	21.8	25°	1945	877
40°-50°	74.0	2.8	3.4	35°	744	475
50°-60°	2.0	0.1	0.1	45°	68	74
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°	2071.4	79.0	94.9	165°	0	0
0°-40°	2546.6	97.1	116.7	175°	0	0
0°-60°	2622.6	100.0	120.1	180°	0	0
0°-90°	2623.0	100.0	120.2			
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°	2623.0	100.0	120.2			



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CANDELA DISTRIBUTION (FULL):

0°	
0°	4187.8
2.5°	4184.4
5°	4105.1
7.5°	3909.4
10°	3605.8
12.5°	3250.4
15°	2918.0
17.5°	2635.9
20°	2389.8
22.5°	2169.0
25°	1944.6
27.5°	1690.0
30°	1391.1
32.5°	1061.0
35°	744.2
37.5°	476.6
40°	274.8
42.5°	146.4
45°	68.4
47.5°	37.3
50°	11.9
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)