

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: P245650

Luminaire Tested: **LD8B40D010 ER8B40940 8LBN0GPH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P245650
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 ER8B40940 8LBN0GPH
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED
DOWNLIGHT
90 CRI 4000 CCT WITH GRAPHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: 2183 (1 lamp)
Luminaire Lumens: 3171.0 lumens
Efficiency: 145.3%
Efficacy: 77.5 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

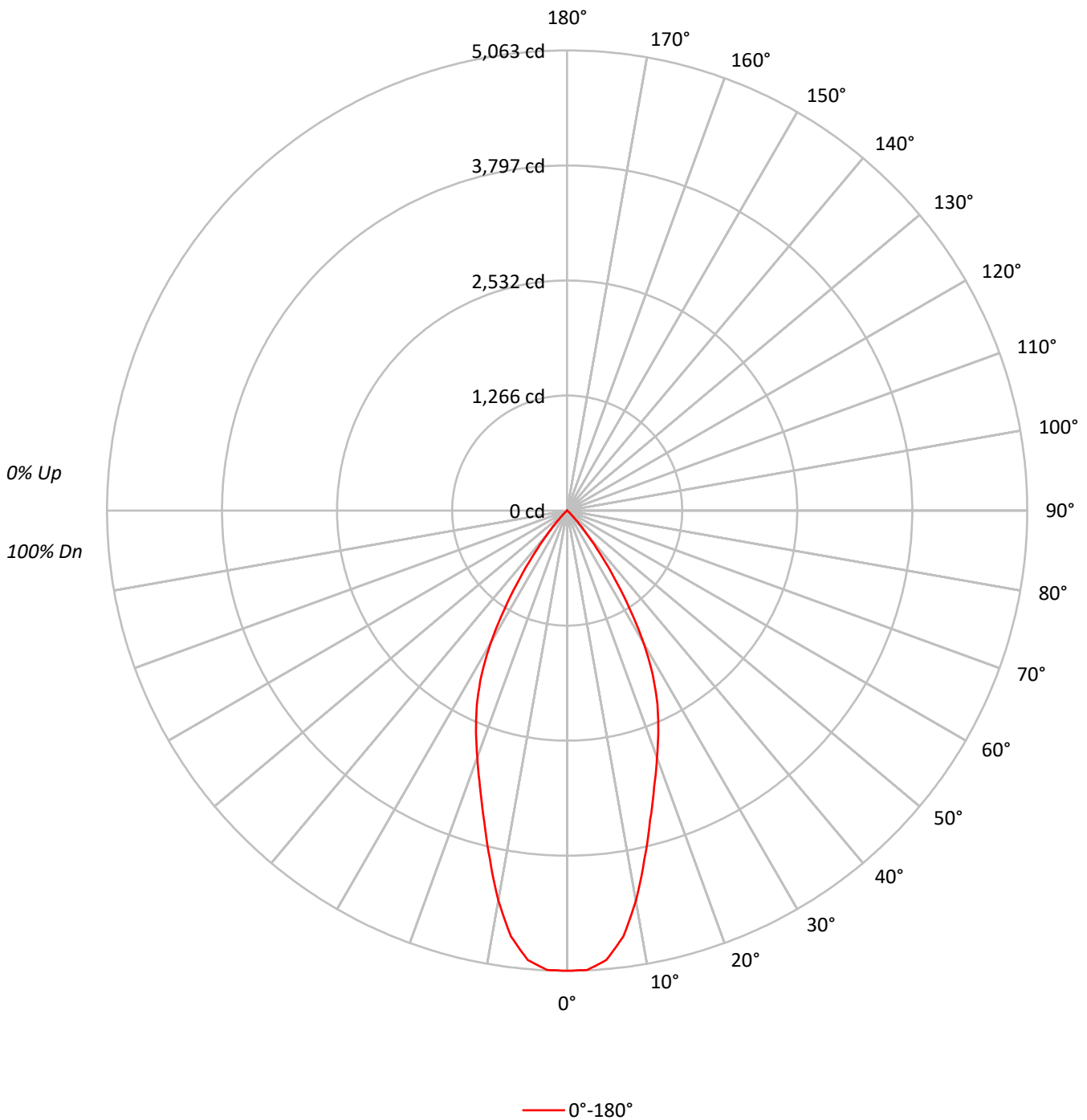
Input Watts (W): 40.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	50	30	10	0			
RCR																								
0	173	173	173	173	169	169	169	169	161	161	161	155	155	155	148	148	148	145	145	145	145			
1	166	162	158	155	162	159	156	153	153	150	148	147	146	144	142	141	140	137	137	137	137			
2	158	152	146	142	155	149	144	140	144	140	137	140	137	134	136	134	131	129	129	129	129			
3	151	142	136	130	148	140	134	129	137	131	127	133	129	125	130	126	123	121	121	121	121			
4	144	134	127	121	142	132	125	120	129	123	119	126	121	117	124	120	116	114	114	114	114			
5	137	126	118	113	135	125	118	112	122	116	111	120	115	110	118	113	109	107	107	107	107			
6	131	119	111	106	129	118	111	105	116	109	104	114	108	104	112	107	103	101	101	101	101			
7	125	113	105	99	124	112	104	99	110	103	98	109	102	98	107	102	97	96	96	96	96			
8	120	107	99	94	118	106	99	93	105	98	93	103	97	93	102	96	92	90	90	90	90			
9	115	102	94	88	113	101	93	88	100	93	88	98	92	88	97	92	87	86	86	86	86			
10	110	97	89	84	108	96	89	84	95	88	83	94	88	83	93	87	83	81	81	81	81			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	156118
5°	153616
10°	136492
15°	112619
20°	94807
25°	79987
30°	59880
35°	33868
40°	13372
45°	3606
50°	691
55°	0
60°	86
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°	454.1	14.3	20.8	0°	5063	
10°-20°	989.8	31.2	45.3	5°	4963	454
20°-30°	1060.3	33.4	48.6	15°	3528	990
30°-40°	574.5	18.1	26.3	25°	2351	1060
40°-50°	89.4	2.8	4.1	35°	900	575
50°-60°	2.3	0.1	0.1	45°	83	89
60°-70°	0.5	0.0	0.0	55°	0	2
70°-80°	0.0	0.0	0.0	65°	0	1
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°	2504.2	79.0	114.7	165°	0	0
0°-40°	3078.7	97.1	141.0	175°	0	0
0°-60°	3170.5	100.0	145.2	180°	0	0
0°-90°	3171.0	100.0	145.3			
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°	3171.0	100.0	145.3			



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CANDELA DISTRIBUTION (FULL):

0°	
0°	5062.8
2.5°	5058.6
5°	4962.7
7.5°	4726.1
10°	4359.1
12.5°	3929.5
15°	3527.7
17.5°	3186.6
20°	2889.1
22.5°	2622.1
25°	2350.9
27.5°	2043.1
30°	1681.7
32.5°	1282.7
35°	899.7
37.5°	576.2
40°	332.2
42.5°	177.0
45°	82.7
47.5°	45.1
50°	14.4
52.5°	1.4
55°	0.0
57.5°	1.4
60°	1.4
62.5°	0.0
65°	0.0
67.5°	1.4
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)