

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: P245662

Luminaire Tested: **LD8B40D010 ER8B409727 8LBN0GPH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P245662
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 ER8B409727 8LBN0GPH
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED
DOWNLIGHT
97 CRI 2700 CCT WITH GRAPHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: 2183 (1 lamp)
Luminaire Lumens: 2479.0 lumens
Efficiency: 113.6%
Efficacy: 60.6 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

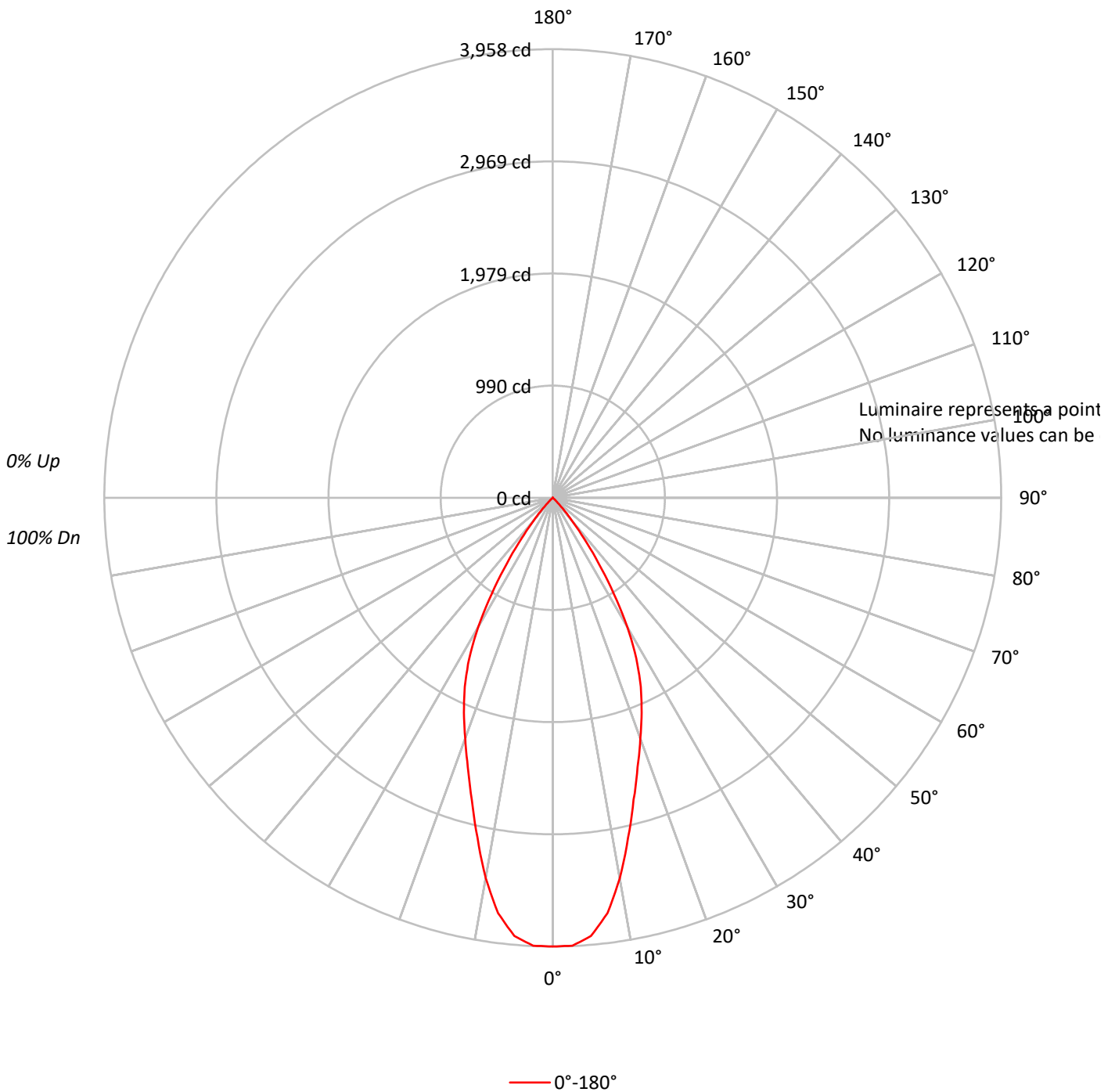
Input Watts (W): 40.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P245662

CATALOG NUMBER: LD8B40D010 ER8B409727 8LBN0GPH

Luminous Intensity Polar Plot





TEST NUMBER: P245662

CATALOG NUMBER: LD8B40D010 ER8B409727 8LBN0GPH

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	135	135	135	135	132	132	132	132	126	126	126	121	121	121	116	116	116	114		
1	129	126	124	121	127	124	122	120	119	118	116	115	114	112	111	110	109	107		
2	124	118	114	111	121	117	113	109	113	110	107	110	107	105	106	104	103	101		
3	118	111	106	102	116	110	105	101	107	103	99	104	101	98	102	99	96	95		
4	113	105	99	94	111	103	98	94	101	96	93	99	95	92	97	93	91	89		
5	107	99	93	88	106	98	92	88	96	91	87	94	90	86	92	88	85	84		
6	103	93	87	83	101	92	87	82	91	86	82	89	85	81	88	84	81	79		
7	98	88	82	78	97	88	82	77	86	81	77	85	80	77	84	79	76	75		
8	94	84	77	73	92	83	77	73	82	77	73	81	76	72	80	75	72	71		
9	90	80	73	69	88	79	73	69	78	73	69	77	72	69	76	72	68	67		
10	86	76	70	65	85	75	69	65	74	69	65	73	69	65	73	68	65	63		

AVERAGE LUMINANCE (cd/sqm):





TEST NUMBER: P245662

CATALOG NUMBER: LD8B40D010 ER8B409727 8LBN0GPH

ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp	0°	Flux	
0°-10°	355.0	14.3	16.3	0°	3958	
10°-20°	773.8	31.2	35.4	5°	3880	355
20°-30°	828.9	33.4	38.0	15°	2758	774
30°-40°	449.2	18.1	20.6	25°	1838	829
40°-50°	69.9	2.8	3.2	35°	703	449
50°-60°	1.8	0.1	0.1	45°	65	70
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°	1957.7	79.0	89.7	165°	0	0
0°-40°	2406.9	97.1	110.3	175°	0	0
0°-60°	2478.6	100.0	113.5	180°	0	0
0°-90°	2479.0	100.0	113.6			
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°	2479.0	100.0	113.6			



TEST NUMBER: P245662

CATALOG NUMBER: LD8B40D010 ER8B409727 8LBN0GPH

CANDELA DISTRIBUTION (FULL):

0°	
0°	3957.9
2.5°	3954.7
5°	3879.7
7.5°	3694.8
10°	3407.8
12.5°	3072.0
15°	2757.8
17.5°	2491.2
20°	2258.6
22.5°	2049.9
25°	1837.8
27.5°	1597.2
30°	1314.7
32.5°	1002.8
35°	703.4
37.5°	450.5
40°	259.7
42.5°	138.4
45°	64.6
47.5°	35.3
50°	11.3
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



TEST NUMBER: P245662

CATALOG NUMBER: LD8B40D010 ER8B409727 8LBN0GPH

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)