

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: P248027

Luminaire Tested: **LD8B150D010 ER8B150840 8LBM0WMH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248027
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13941)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD8B150D010 ER8B150840 8LBM0WMH
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG CUTOFF RECESSED
DOWNLIGHT
80 CRI 4000 CCT WITH WARM HAZE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15257.0 lumens
Efficiency: N/A
Efficacy: 96.3 lumens/watt
Spacing Criteria (0/90/45): 0.9 / 0.9 / 0.9
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

Input Watts (W): 158.5
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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	113	111	108	106	111	108	106	104	104	103	101	101	99	98	97	96	95	93
2	108	103	99	95	105	101	97	94	98	95	92	95	92	90	92	90	88	86
3	102	95	90	86	100	94	89	86	91	87	84	89	86	83	87	84	82	80
4	97	89	83	79	95	88	82	78	86	81	77	84	80	77	82	78	76	74
5	92	83	77	73	90	82	76	72	80	75	72	79	74	71	77	73	70	69
6	87	78	72	67	85	77	71	67	75	70	66	74	69	66	73	69	65	64
7	82	73	67	62	81	72	66	62	71	66	62	70	65	61	68	64	61	60
8	78	68	62	58	77	68	62	58	67	61	58	66	61	57	65	60	57	56
9	74	64	58	54	73	64	58	54	63	58	54	62	57	54	61	57	54	52
10	71	61	55	51	70	60	55	51	60	54	51	59	54	51	58	54	50	49

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	518954
5°	512272
10°	480232
15°	439158
20°	404285
25°	366344
30°	303355
35°	212754
40°	121076
45°	59383
50°	29307
55°	13284
60°	6328
65°	3407
70°	424
75°	560
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1540.1	10.1
10°-20°	3861.7	25.3
20°-30°	4874.8	32.0
30°-40°	3506.8	23.0
40°-50°	1160.7	7.6
50°-60°	252.8	1.7
60°-70°	52.2	0.3
70°-80°	5.6	0.0
80°-90°	2.6	0.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	10276.5	67.4
0°-40°	13783.3	90.3
0°-60°	15196.8	99.6
0°-90°	15257.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	15257.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	16829	
5°	16549	###
15°	13756	3862
25°	10767	4875
35°	5652	3507
45°	1362	1161
55°	247	253
65°	47	52
75°	5	6
85°	0	3
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	16829.3
1°	16852.6
2°	16833.9
3°	16778.0
4°	16675.4
5°	16549.4
6°	16376.9
7°	16153.2
8°	15905.9
9°	15635.5
10°	15337.0
11°	15034.0
12°	14702.9
13°	14385.8
14°	14064.0
15°	13756.3
16°	13453.1
17°	13164.0
18°	12875.0
19°	12599.8
20°	12320.0
21°	12035.6
22°	11755.8
23°	11452.6
24°	11126.3
25°	10767.2
26°	10389.4
27°	9969.8
28°	9526.8
29°	9032.5
30°	8519.6
31°	7978.6
32°	7409.7
33°	6812.9
34°	6229.9
35°	5651.7
37.5°	4243.5
40°	3007.8
42.5°	2037.8
45°	1361.7
47.5°	913.9
50°	610.9
52.5°	368.4
55°	247.1
57.5°	172.5



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CANDELA DISTRIBUTION (continued):

	0°
60°	102.6
62.5°	69.9
65°	46.7
67.5°	42.0
70°	4.7
72.5°	9.4
75°	4.7
77.5°	4.7
80°	0.0
82.5°	9.4
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)