

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: P250314

Luminaire Tested: **LD8B175D010 ER8B175840 8LBN0GPH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P250314
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13948)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD8B175D010 ER8B175840 8LBN0GPH
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED
DOWNLIGHT
80 CRI 4000 CCT WITH GRAPHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14269.0 lumens
Efficiency: N/A
Efficacy: 80.5 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

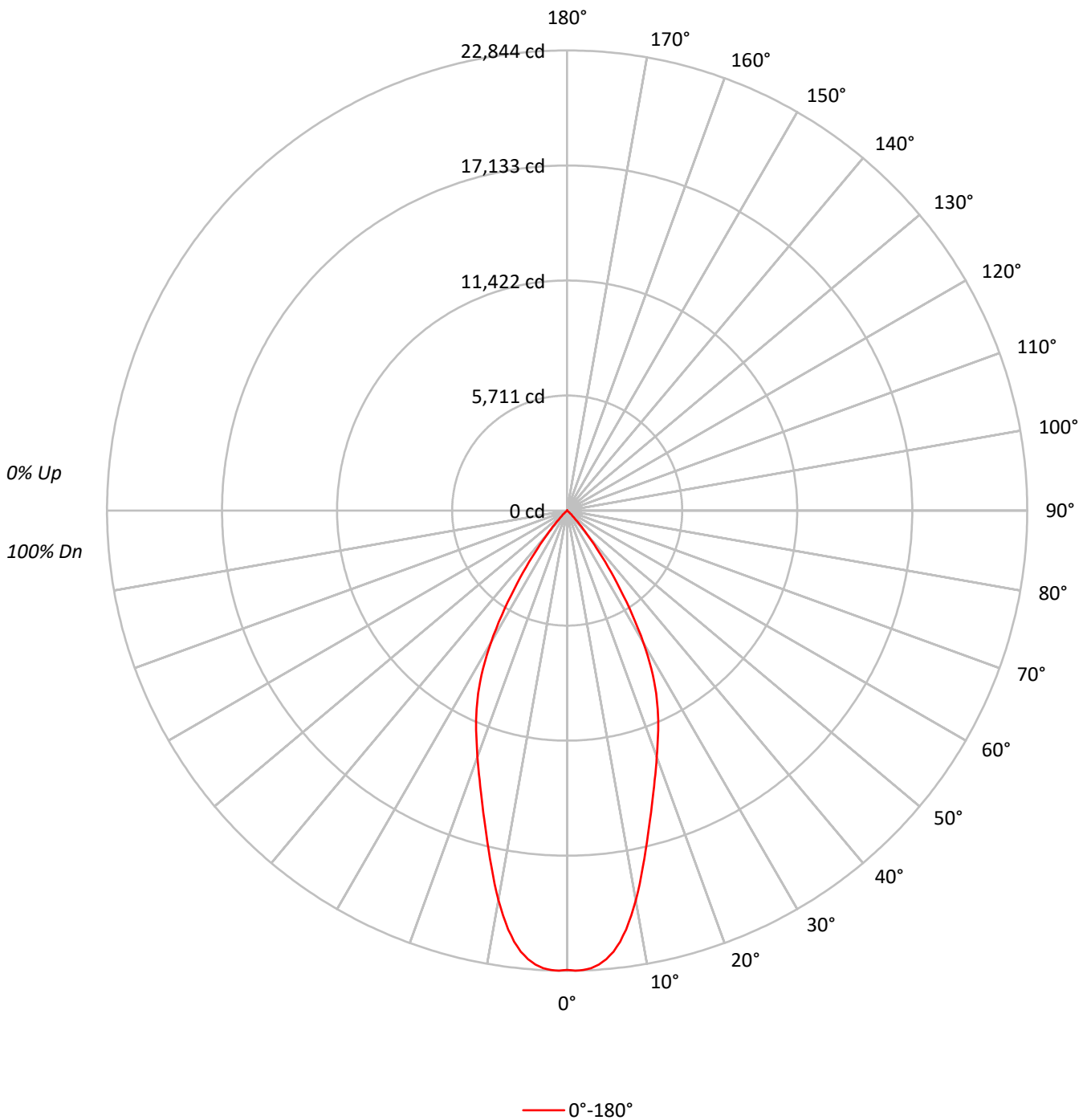
Input Watts (W): 177.2
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	114	111	109	107	112	109	107	105	105	104	102	101	100	99	98	97	96	94
2	109	104	101	97	107	103	99	96	99	97	94	96	94	92	94	92	90	89
3	104	98	93	90	102	97	92	89	94	90	88	92	89	86	89	87	85	83
4	99	92	87	83	97	91	86	83	89	85	82	87	84	81	85	82	80	78
5	95	87	82	78	93	86	81	77	84	80	77	83	79	76	81	78	75	74
6	90	82	77	73	89	81	76	72	80	75	72	79	75	71	77	74	71	70
7	86	78	72	68	85	77	72	68	76	71	68	75	71	67	74	70	67	66
8	83	74	68	64	81	73	68	64	72	67	64	71	67	64	70	66	63	62
9	79	70	65	61	78	70	64	61	69	64	61	68	63	60	67	63	60	59
10	76	67	61	58	75	66	61	58	65	61	57	65	60	57	64	60	57	56

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	703083
5°	691849
10°	614692
15°	507066
20°	427052
25°	360196
30°	269692
35°	152628
40°	60349
45°	16201
50°	3104
55°	0
60°	450
65°	0
70°	0
75°	0
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2046.8	14.3
10°-20°	4448.6	31.2
20°-30°	4775.9	33.5
30°-40°	2581.3	18.1
40°-50°	402.7	2.8
50°-60°	11.0	0.1
60°-70°	2.7	0.0
70°-80°	0.0	0.0
80°-90°	0.0	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°	11271.3	79.0
0°-40°	13852.5	97.1
0°-60°	14266.3	100.0
0°-90°	14269.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	14269.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	22800	
5°	22351	###
15°	15884	4449
25°	10586	4776
35°	4054	2581
45°	372	403
55°	0	11
65°	0	3
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	22800.5
1°	22843.7
2°	22822.3
3°	22744.1
4°	22594.0
5°	22350.8
6°	22016.0
7°	21565.5
8°	21001.7
9°	20352.8
10°	19631.2
11°	18874.3
12°	18089.1
13°	17304.6
14°	16575.7
15°	15883.5
16°	15248.0
17°	14634.0
18°	14062.9
19°	13528.2
20°	13013.8
21°	12513.9
22°	12042.4
23°	11572.0
24°	11079.4
25°	10586.5
26°	10086.6
27°	9515.9
28°	8887.3
29°	8245.7
30°	7574.2
31°	6853.3
32°	6131.7
33°	5418.1
34°	4697.2
35°	4054.5
37.5°	2591.3
40°	1499.2
42.5°	799.8
45°	371.5
47.5°	200.3
50°	64.7
52.5°	7.3
55°	0.0
57.5°	7.3



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CANDELA DISTRIBUTION (continued):

	0°
60°	7.3
62.5°	0.0
65°	0.0
67.5°	7.3
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

(END OF REPORT)