

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: P250307

Luminaire Tested: **LD8B175D010 ER8B175835 8LBN0GPH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P250307
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 ER8B175835 8LBN0GPH
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED
DOWNLIGHT
80 CRI 3500 CCT WITH GRAPHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14363.0 lumens
Efficiency: N/A
Efficacy: 81.1 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

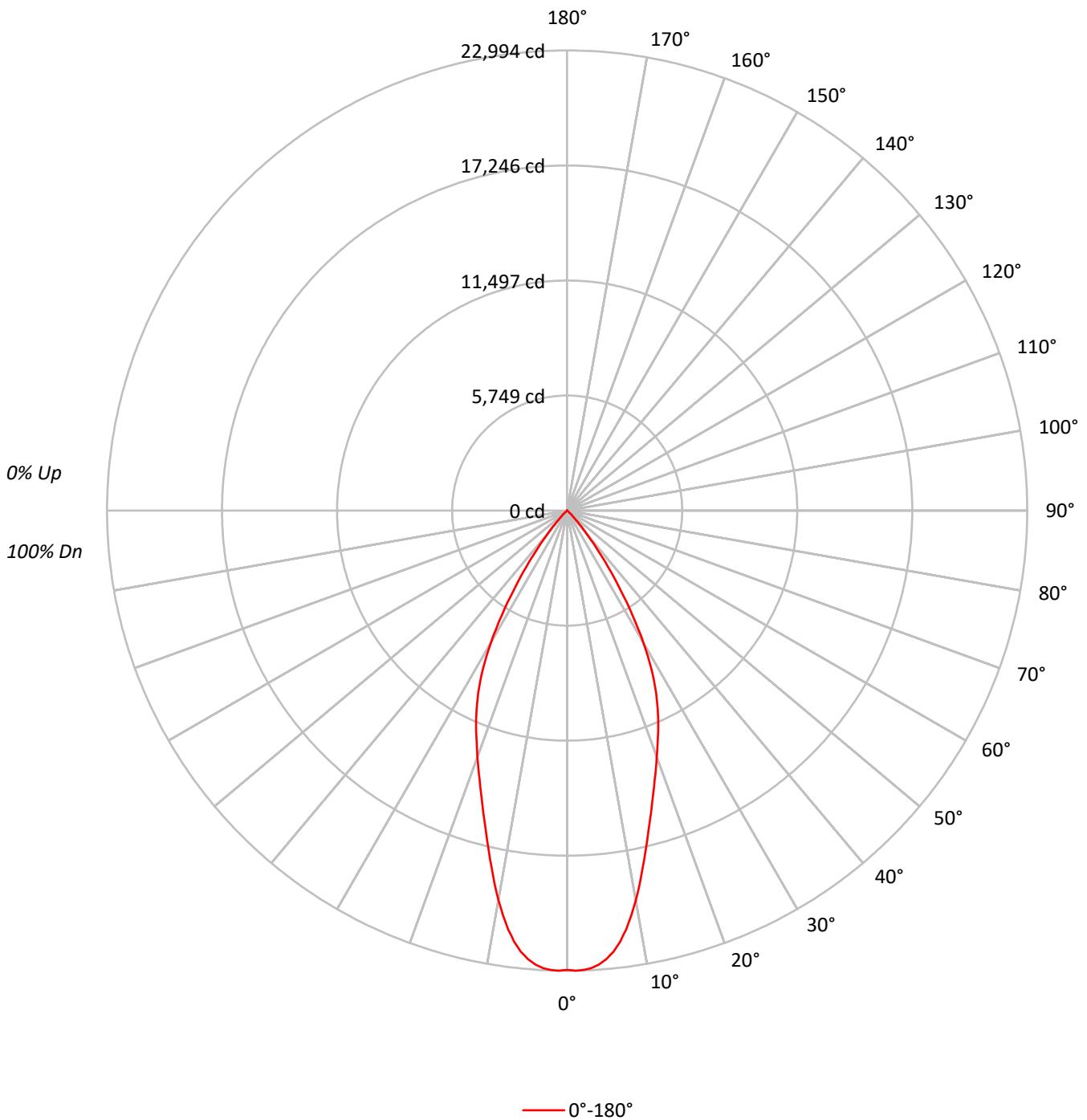
Input Watts (W): 177.2
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	707715
5°	696405
10°	618741
15°	510406
20°	429864
25°	362568
30°	271469
35°	153633
40°	60747
45°	16310
50°	3123
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°	2060.3	14.3
10°-20°	4477.9	31.2
20°-30°	4807.4	33.5
30°-40°	2598.3	18.1
40°-50°	405.4	2.8
50°-60°	11.1	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°	11345.5	79.0
0°-40°	13943.8	97.1
0°-60°	14360.2	100.0
0°-90°	14363.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	14363.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	22951	
5°	22498	###
15°	15988	4478
25°	10656	4807
35°	4081	2598
45°	374	405
55°	0	11
65°	0	3
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	22950.7
1°	22994.2
2°	22972.6
3°	22893.9
4°	22742.8
5°	22498.0
6°	22161.0
7°	21707.6
8°	21140.0
9°	20486.9
10°	19760.5
11°	18998.6
12°	18208.2
13°	17418.6
14°	16684.9
15°	15988.1
16°	15348.5
17°	14730.4
18°	14155.6
19°	13617.3
20°	13099.5
21°	12596.4
22°	12121.7
23°	11648.2
24°	11152.4
25°	10656.2
26°	10153.0
27°	9578.5
28°	8945.8
29°	8300.0
30°	7624.1
31°	6898.5
32°	6172.1
33°	5453.8
34°	4728.2
35°	4081.2
37.5°	2608.3
40°	1509.1
42.5°	805.0
45°	374.0
47.5°	201.6
50°	65.1
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)