

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: P249901

Luminaire Tested: **LD8B175D010 ER8B175850 8LBM0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P249901
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13954)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD8B175D010 ER8B175850 8LBM0H
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG CUTOFF RECESSED
DOWNLIGHT
80 CRI 5000 CCT WITH SEMI-SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18030.0 lumens
Efficiency: N/A
Efficacy: 101.7 lumens/watt
Spacing Criteria (0/90/45): 0.92 / 0.92 / 0.93
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

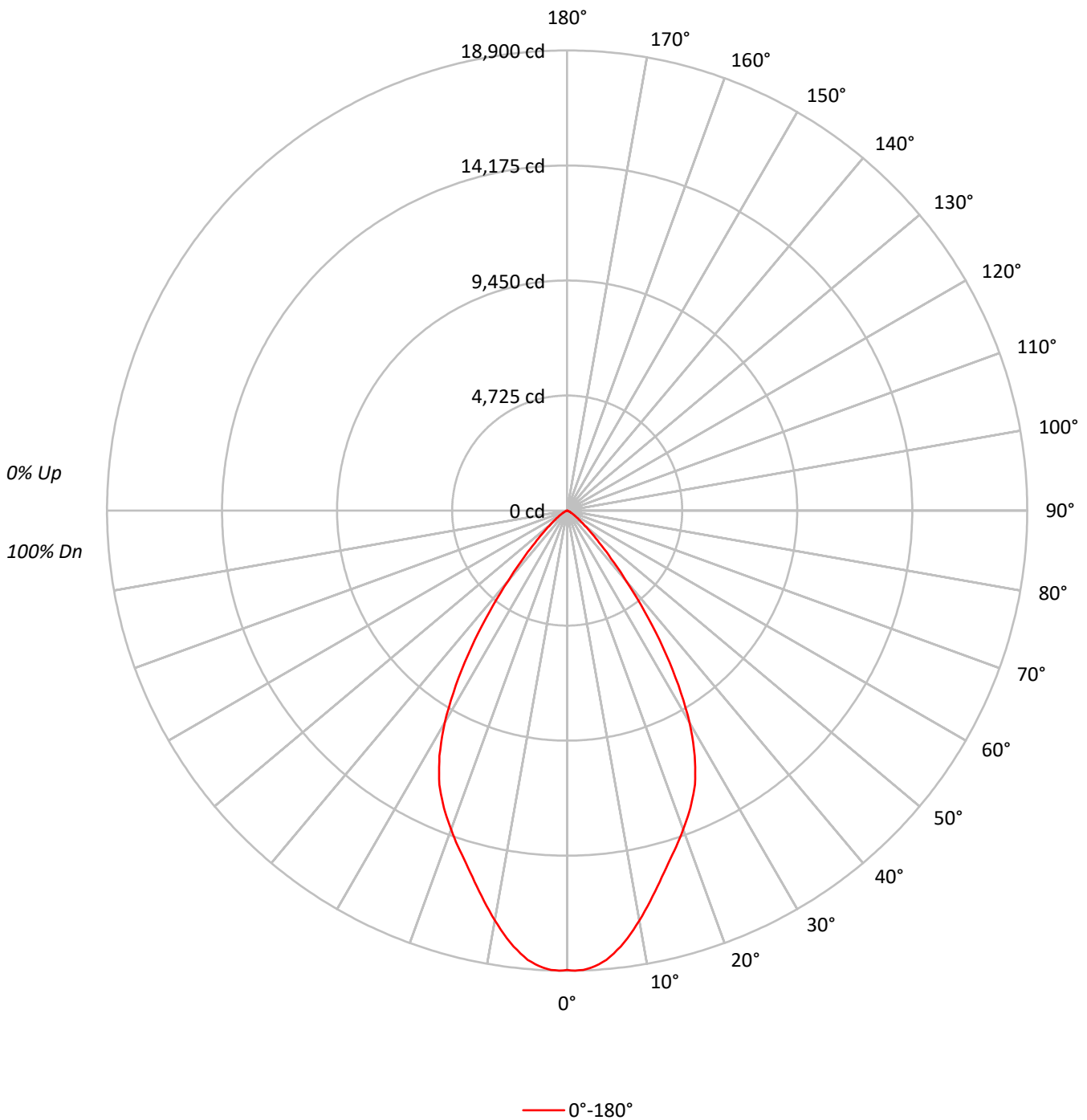
Input Watts (W): 177.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	110	108	105	111	108	106	104	104	102	101		100	99	98		97	96	95	93
2	107	102	98	94	105	100	97	93	97	94	91		94	92	89		91	89	87	86
3	101	95	90	85	99	93	89	85	91	87	83		88	85	82		86	83	81	79
4	96	88	82	78	94	87	82	77	85	80	76		83	79	76		81	77	75	73
5	91	82	76	71	89	81	75	71	79	74	70		78	73	70		76	72	69	68
6	86	77	70	66	84	76	70	66	74	69	65		73	68	65		71	67	64	63
7	81	72	65	61	80	71	65	61	70	64	60		68	64	60		67	63	60	58
8	77	67	61	57	76	67	61	56	65	60	56		64	60	56		63	59	56	54
9	73	63	57	53	72	63	57	53	62	56	53		61	56	52		60	55	52	51
10	70	60	53	49	69	59	53	49	58	53	49		57	53	49		57	52	49	48

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	581931
5°	573363
10°	535094
15°	491159
20°	457446
25°	422641
30°	358403
35°	257829
40°	151886
45°	81170
50°	42355
55°	23881
60°	13179
65°	7793
70°	3552
75°	2014
80°	994
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1720.5	9.5
10°-20°	4328.7	24.0
20°-30°	5619.5	31.2
30°-40°	4241.5	23.5
40°-50°	1552.0	8.6
50°-60°	433.8	2.4
60°-70°	114.0	0.6
70°-80°	19.2	0.1
80°-90°	0.8	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°	11668.7	64.7
0°-40°	15910.2	88.2
0°-60°	17896.0	99.3
0°-90°	18030.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	18030.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	18872	
5°	18523	###
15°	15385	4329
25°	12422	5620
35°	6849	4242
45°	1861	1552
55°	444	434
65°	107	114
75°	17	19
85°	0	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	18871.6
1°	18899.7
2°	18877.3
3°	18804.1
4°	18680.4
5°	18523.0
6°	18292.4
7°	18039.4
8°	17747.0
9°	17426.5
10°	17089.1
11°	16751.7
12°	16403.0
13°	16048.8
14°	15711.4
15°	15385.2
16°	15075.9
17°	14777.9
18°	14508.0
19°	14226.8
20°	13940.0
22.5°	13225.9
25°	12421.8
27.5°	11359.0
30°	10065.6
32.5°	8508.0
35°	6849.1
37.5°	5229.6
40°	3773.2
42.5°	2671.0
45°	1861.3
47.5°	1310.2
50°	882.9
52.5°	646.7
55°	444.2
57.5°	320.5
60°	213.7
62.5°	157.5
65°	106.8
67.5°	73.1
70°	39.4
72.5°	28.1
75°	16.9
77.5°	5.6
80°	5.6



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CANDELA DISTRIBUTION (continued):

	0°
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)