

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: P250727

Luminaire Tested: **LD8B175D010 ER8B175835 8LBM0MW**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P250727
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13935)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD8B175D010 ER8B175835 8LBM0MW
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG CUTOFF RECESSED
DOWNLIGHT
80 CRI 3500 CCT WITH MATTE WHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18155.0 lumens
Efficiency: N/A
Efficacy: 102.5 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 0.86 / 0.93
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

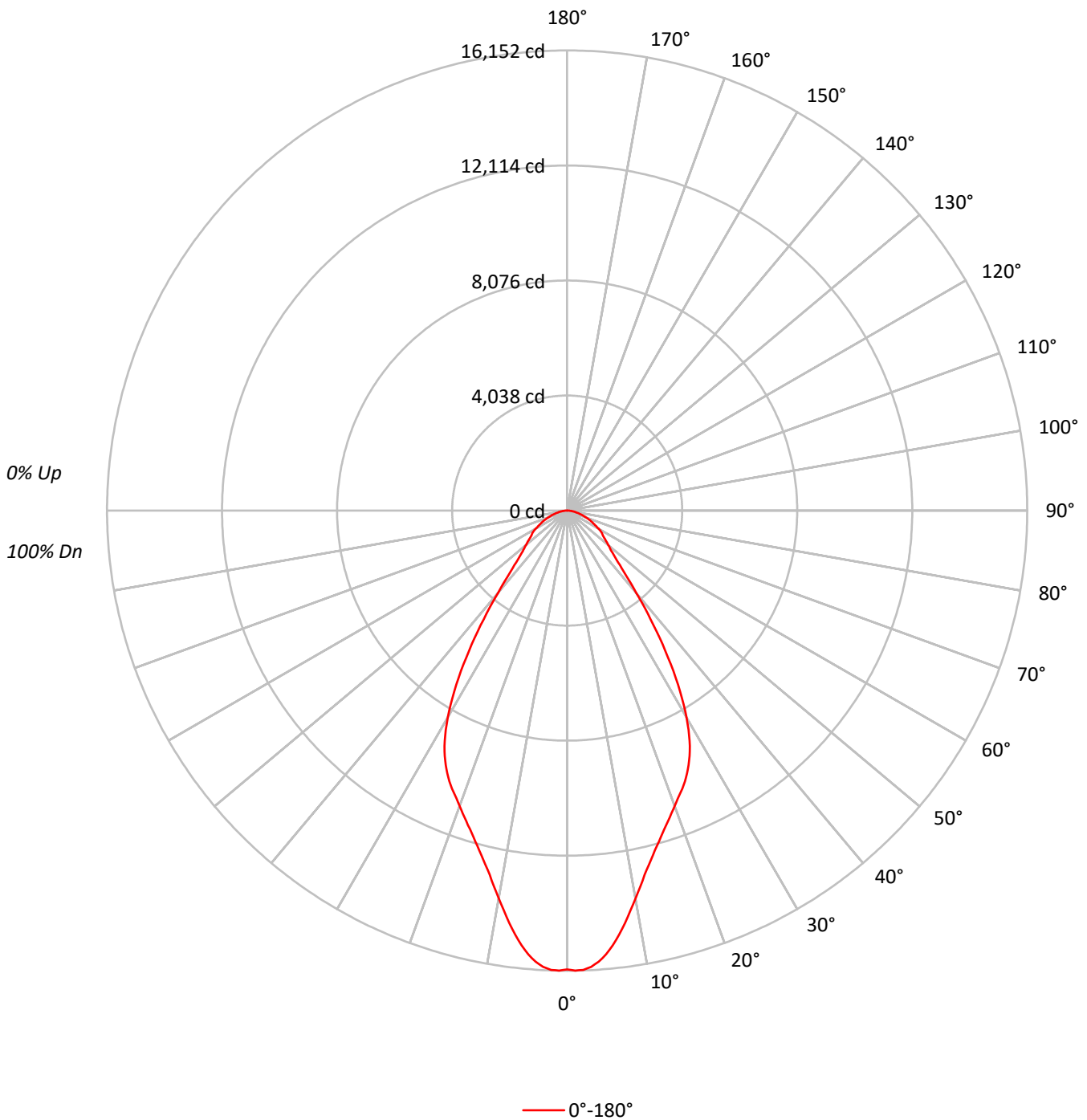
Input Watts (W): 177.2
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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					100			
1	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	91	89					89			
2	104	98	93	88	102	96	91	87	93	89	85	90	86	83	87	84	82	80					80			
3	97	89	83	78	95	88	82	77	85	80	76	82	78	75	80	76	73	71					71			
4	91	82	75	69	89	80	74	69	78	72	68	76	71	67	74	70	66	65					65			
5	85	75	68	63	83	74	67	62	72	66	62	70	65	61	69	64	60	59					59			
6	80	69	62	57	78	68	62	57	67	61	56	65	60	56	64	59	55	54					54			
7	75	64	57	52	74	64	57	52	62	56	52	61	55	51	60	55	51	49					49			
8	71	60	53	48	70	59	53	48	58	52	48	57	51	47	56	51	47	46					46			
9	67	56	49	44	66	56	49	44	54	48	44	54	48	44	53	48	44	42					42			
10	64	53	46	41	63	52	46	41	51	45	41	50	45	41	50	45	41	39					39			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	496600
5°	484026
10°	432720
15°	388861
20°	362137
25°	341163
30°	298306
35°	226001
40°	151810
45°	106973
50°	90712
55°	82739
60°	78392
65°	70521
70°	63454
75°	56950
80°	50361
85°	48330



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1431.2	7.9
10°-20°	3435.1	18.9
20°-30°	4552.2	25.1
30°-40°	3732.9	20.6
40°-50°	1988.1	11.0
50°-60°	1399.3	7.7
60°-70°	964.9	5.3
70°-80°	502.5	2.8
80°-90°	148.6	0.8
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°	9418.6	51.9
0°-40°	13151.5	72.4
0°-60°	16538.9	91.1
0°-90°	18155.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	18155.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	16104	
5°	15637	###
15°	12181	3435
25°	10027	4552
35°	6004	3733
45°	2453	1988
55°	1539	1399
65°	966	965
75°	478	503
85°	137	149
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	16104.4
1°	16151.7
2°	16130.6
3°	16036.0
4°	15873.3
5°	15636.9
6°	15342.8
7°	14990.9
8°	14612.7
9°	14208.2
10°	13819.6
11°	13446.6
12°	13068.3
13°	12753.2
14°	12453.9
15°	12180.8
16°	11923.3
17°	11687.0
18°	11466.3
19°	11245.8
20°	11035.6
21°	10830.8
22°	10652.3
23°	10468.4
24°	10253.1
25°	10027.1
26°	9769.8
27°	9480.9
28°	9155.2
29°	8792.8
30°	8377.8
31°	7941.9
32°	7485.0
33°	6996.5
34°	6508.0
35°	6003.6
37.5°	4811.3
40°	3771.3
42.5°	2978.2
45°	2453.0
47.5°	2106.3
50°	1890.9
52.5°	1701.9
55°	1539.0
57.5°	1439.2



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CANDELA DISTRIBUTION (continued):

	0°
60°	1271.1
62.5°	1108.2
65°	966.5
67.5°	840.4
70°	703.8
72.5°	588.2
75°	478.0
77.5°	346.6
80°	283.6
82.5°	204.9
85°	136.6
87.5°	63.0
90°	0.0

(END OF REPORT)