

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: P249986

Luminaire Tested: **LD8B200D010 ER8B200850 8LBN0WMH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P249986
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13951)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD8B200D010 ER8B200850 8LBN0WMH
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED
DOWNLIGHT
80 CRI 5000 CCT WITH WARM HAZE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18714.0 lumens
Efficiency: N/A
Efficacy: 83.8 lumens/watt
Spacing Criteria (0/90/45): 0.74 / 0.74 / 0.79
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

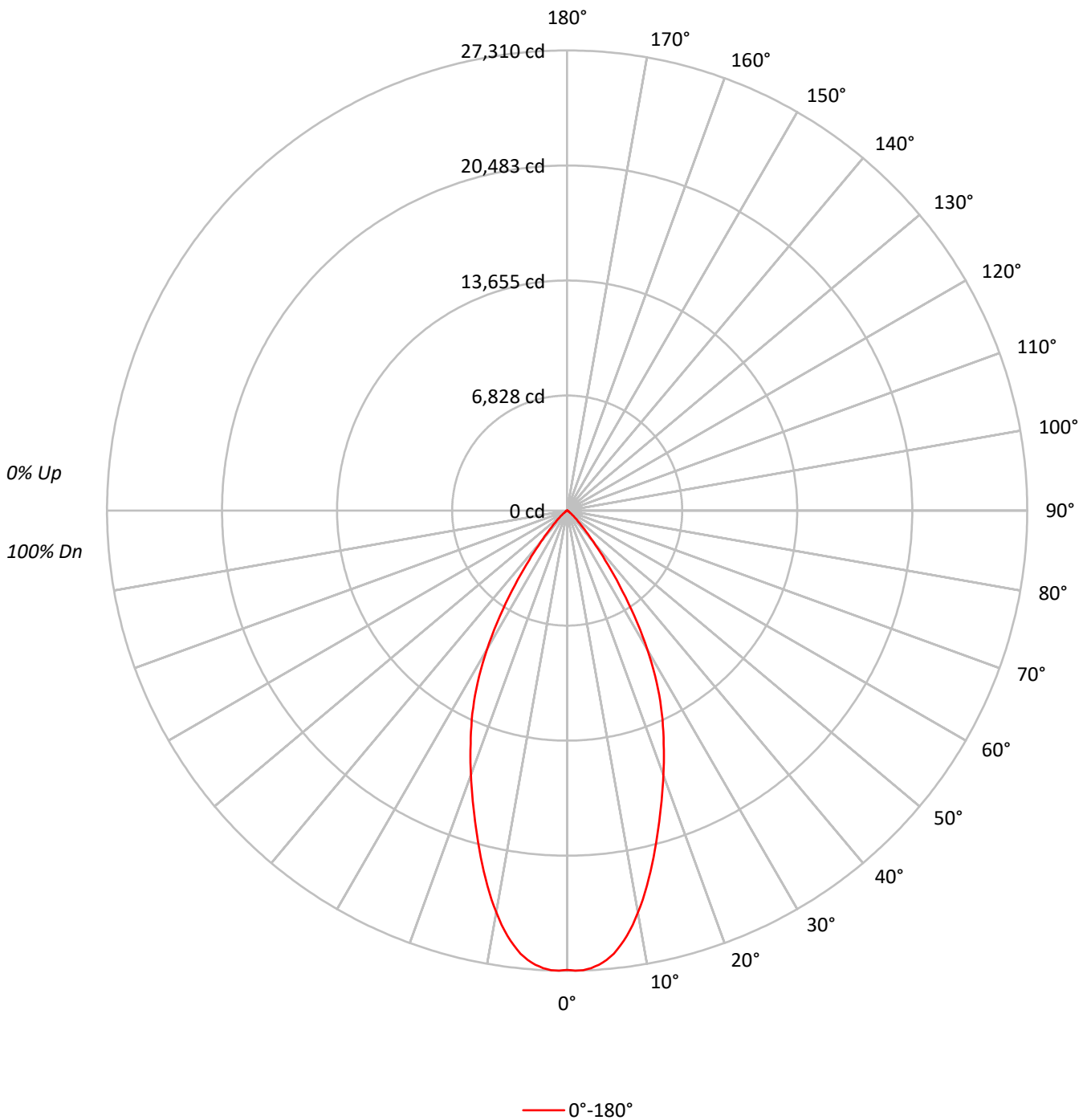
Input Watts (W): 223.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	111	109	107	105	105	103	102	101	100	99	98	97	96	94
2	108	104	100	97	106	102	99	96	99	96	93	96	94	91	93	91	90	88
3	103	97	92	89	101	96	91	88	93	89	86	91	88	85	89	86	84	82
4	98	91	86	82	97	90	85	81	88	84	80	86	82	79	84	81	79	77
5	94	86	80	76	92	85	80	76	83	78	75	81	77	74	80	76	74	72
6	89	81	75	71	88	80	75	71	79	74	70	77	73	70	76	72	69	68
7	85	76	71	67	84	76	70	66	74	70	66	73	69	66	72	68	65	64
8	81	72	66	63	80	72	66	62	71	66	62	70	65	62	69	65	62	60
9	78	68	63	59	77	68	63	59	67	62	59	66	62	58	65	61	58	57
10	74	65	59	56	73	65	59	56	64	59	56	63	59	55	62	58	55	54

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	840518
5°	828809
10°	758242
15°	651012
20°	548219
25°	452953
30°	339752
35°	202518
40°	96489
45°	42035
50°	19060
55°	8398
60°	4817
65°	2860
70°	2948
75°	0
80°	1154
85°	4635



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2473.9	13.2
10°-20°	5676.1	30.3
20°-30°	6030.2	32.2
30°-40°	3440.5	18.4
40°-50°	853.1	4.6
50°-60°	167.7	0.9
60°-70°	50.6	0.3
70°-80°	12.0	0.1
80°-90°	9.8	0.1
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°	14180.3	75.8
0°-40°	17620.8	94.2
0°-60°	18641.6	99.6
0°-90°	18714.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	18714.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	27257	
5°	26775	###
15°	20392	5676
25°	13313	6030
35°	5380	3441
45°	964	853
55°	156	168
65°	39	51
75°	0	12
85°	13	10
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	27257.4
1°	27309.6
2°	27290.0
3°	27192.3
4°	27023.1
5°	26775.4
6°	26450.0
7°	26000.4
8°	25485.8
9°	24880.3
10°	24215.7
11°	23512.6
12°	22756.8
13°	21988.3
14°	21200.2
15°	20392.5
16°	19630.6
17°	18862.1
18°	18139.0
19°	17403.2
20°	16706.2
22.5°	14980.1
25°	13312.7
27.5°	11521.8
30°	9541.8
32.5°	7418.3
35°	5379.8
37.5°	3705.9
40°	2397.0
42.5°	1517.7
45°	963.9
47.5°	631.9
50°	397.3
52.5°	241.1
55°	156.2
57.5°	123.8
60°	78.1
62.5°	71.6
65°	39.2
67.5°	39.2
70°	32.7
72.5°	19.6
75°	0.0
77.5°	6.5
80°	6.5



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CANDELA DISTRIBUTION (continued):

	0°
82.5°	13.1
85°	13.1
87.5°	6.5
90°	0.0

(END OF REPORT)