

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: P250556

Luminaire Tested: **LD8B100D010 ER8B100835 8LBM0B**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P250556
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13928)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD8B100D010 ER8B100835 8LBM0B
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG CUTOFF RECESSED
DOWNLIGHT
80 CRI 3500 CCT WITH SPECULAR BLACK TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6934.0 lumens
Efficiency: N/A
Efficacy: 65.2 lumens/watt
Spacing Criteria (0/90/45): 0.79 / 0.79 / 0.87
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

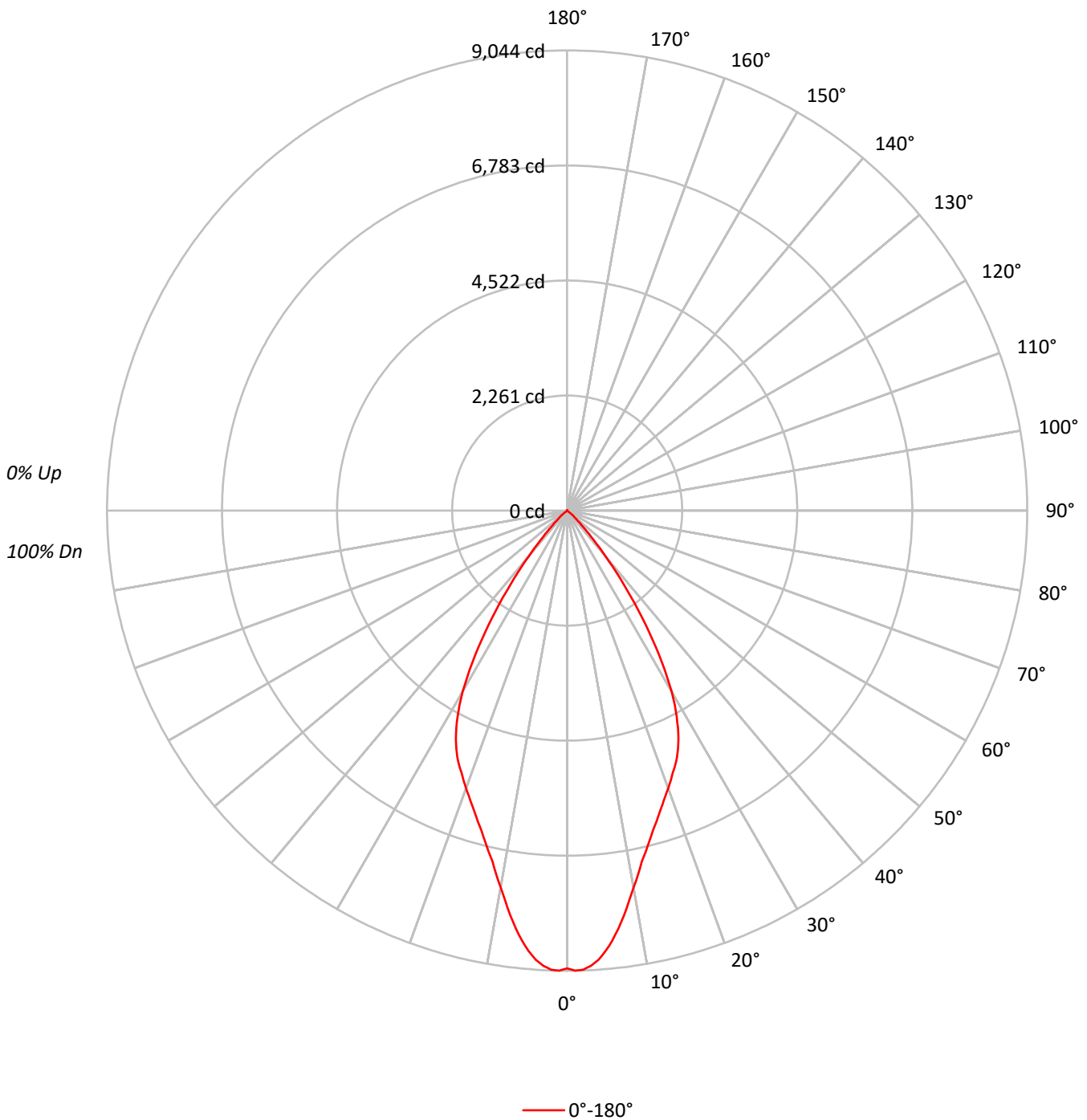
Input Watts (W): 106.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	108	106	111	109	107	105	105	103	101		101	100	98		98	97	96	94
2	108	103	99	96	106	102	98	95	98	95	93		95	93	91		93	91	89	87
3	103	96	92	88	101	95	91	87	92	89	86		90	87	84		88	85	83	81
4	98	90	85	81	96	89	84	80	87	83	79		85	81	78		83	80	77	76
5	93	85	79	75	91	84	78	74	82	77	74		80	76	73		79	75	72	71
6	88	79	74	69	87	79	73	69	77	72	69		76	71	68		74	71	68	66
7	84	75	69	65	83	74	68	64	73	68	64		72	67	64		70	66	63	62
8	80	70	64	60	79	70	64	60	69	64	60		68	63	60		67	63	60	58
9	76	66	61	57	75	66	60	57	65	60	56		64	60	56		63	59	56	55
10	72	63	57	53	71	62	57	53	62	57	53		61	56	53		60	56	53	51

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	277437
5°	268954
10°	235551
15°	207957
20°	190559
25°	175462
30°	146041
35°	97002
40°	47210
45°	17099
50°	5143
55°	360
60°	0
65°	248
70°	0
75°	0
80°	604
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	790.3	11.4
10°-20°	1835.2	26.5
20°-30°	2328.3	33.6
30°-40°	1595.1	23.0
40°-50°	363.5	5.2
50°-60°	18.1	0.3
60°-70°	0.8	0.0
70°-80°	1.3	0.0
80°-90°	1.4	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°	4953.8	71.4
0°-40°	6548.8	94.4
0°-60°	6930.5	99.9
0°-90°	6934.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6934.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	8997	
5°	8689	790
15°	6514	1835
25°	5157	2328
35°	2577	1595
45°	392	363
55°	7	18
65°	3	1
75°	0	1
85°	0	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	8997.1
1°	9044.0
2°	9027.2
3°	8960.2
4°	8846.2
5°	8688.8
6°	8497.8
7°	8276.7
8°	8032.0
9°	7770.6
10°	7522.7
11°	7294.8
12°	7050.2
13°	6872.7
14°	6685.0
15°	6514.1
16°	6360.0
17°	6209.1
18°	6068.4
19°	5931.0
20°	5807.0
21°	5679.7
22°	5549.0
23°	5435.1
24°	5307.8
25°	5157.0
26°	4989.4
27°	4795.1
28°	4587.3
29°	4356.1
30°	4101.5
31°	3813.3
32°	3515.1
33°	3203.4
34°	2885.1
35°	2576.8
37.5°	1819.5
40°	1172.8
42.5°	690.3
45°	392.1
47.5°	211.1
50°	107.2
52.5°	20.1
55°	6.7
57.5°	3.4



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CANDELA DISTRIBUTION (continued):

	0°
60°	0.0
62.5°	0.0
65°	3.4
67.5°	0.0
70°	0.0
72.5°	3.4
75°	0.0
77.5°	0.0
80°	3.4
82.5°	0.0
85°	0.0
87.5°	3.4
90°	0.0

(END OF REPORT)