

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: P250570

Luminaire Tested: **LSR8B100D010 EC8B100850 8LBM0B**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P250570
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: LSR8B100D010 EC8B100850 8LBM0B
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 5000 CCT WITH SPECULAR BLACK TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7023.0 lumens
Efficiency: N/A
Efficacy: 66.1 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

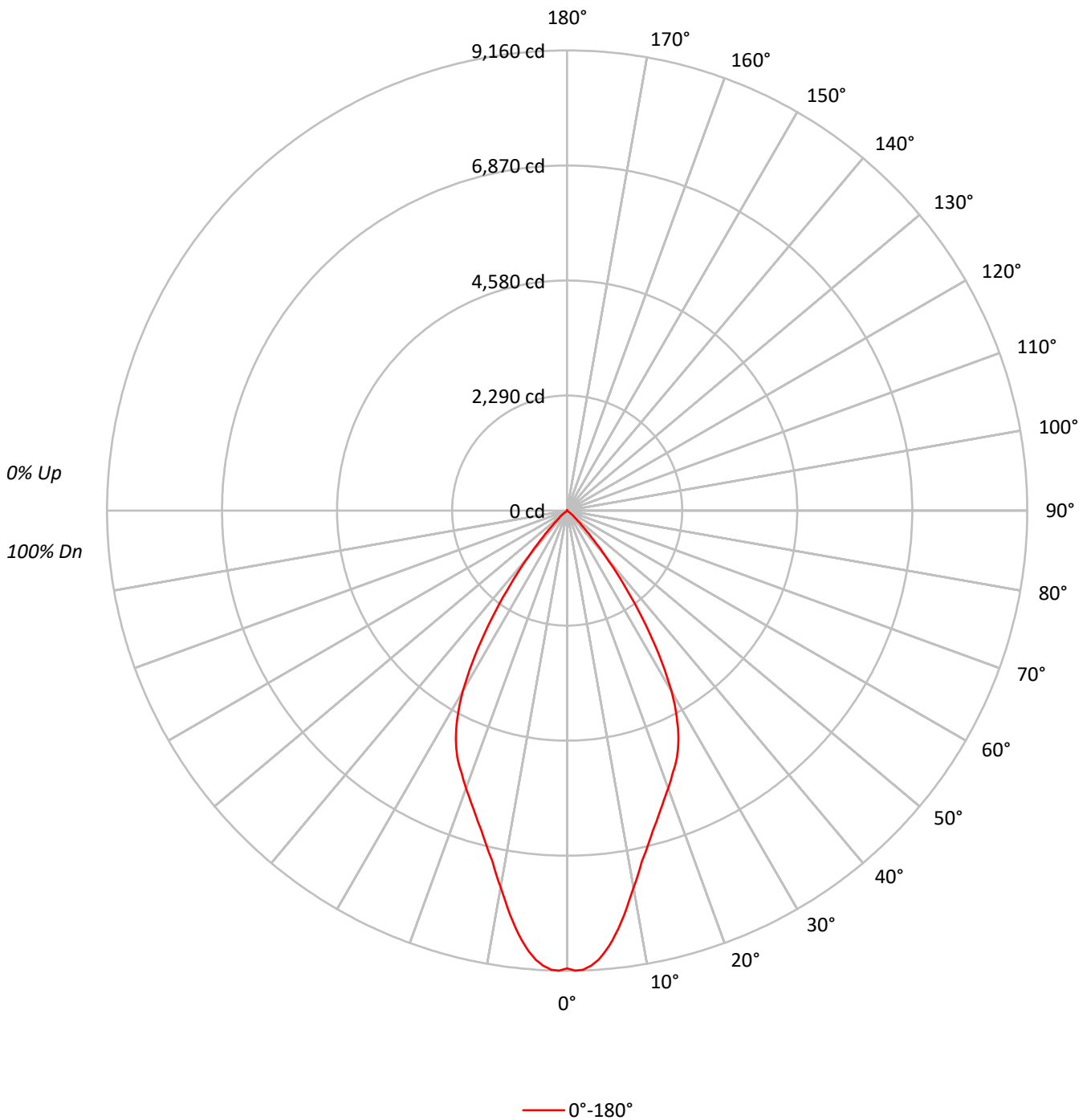
Input Watts (W): 106.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	280999
5°	272405
10°	238572
15°	210626
20°	193007
25°	177715
30°	147914
35°	98248
40°	47814
45°	17317
50°	5210
55°	366
60°	0
65°	248
70°	0
75°	0
80°	604
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	800.4	11.4
10°-20°	1858.8	26.5
20°-30°	2358.2	33.6
30°-40°	1615.5	23.0
40°-50°	368.1	5.2
50°-60°	18.3	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°	5017.4	71.4
0°-40°	6632.9	94.4
0°-60°	7019.4	99.9
0°-90°	7023.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7023.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	9113	
5°	8800	800
15°	6598	1859
25°	5223	2358
35°	2610	1616
45°	397	368
55°	7	18
65°	3	1
75°	0	1
85°	0	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	9112.6
1°	9160.1
2°	9143.1
3°	9075.2
4°	8959.8
5°	8800.3
6°	8606.9
7°	8382.9
8°	8135.1
9°	7870.4
10°	7619.2
11°	7388.5
12°	7140.7
13°	6960.9
14°	6770.8
15°	6597.7
16°	6441.6
17°	6288.8
18°	6146.3
19°	6007.1
20°	5881.6
21°	5752.6
22°	5620.2
23°	5504.9
24°	5375.9
25°	5223.2
26°	5053.5
27°	4856.7
28°	4646.2
29°	4412.0
30°	4154.1
31°	3862.2
32°	3560.2
33°	3244.6
34°	2922.1
35°	2609.9
37.5°	1842.9
40°	1187.8
42.5°	699.1
45°	397.1
47.5°	213.8
50°	108.6
52.5°	20.3
55°	6.8
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)