

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: P250571

Luminaire Tested: **LSR8B120D010 EC8B120850 8LBM0B**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P250571
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: LSR8B120D010 EC8B120850 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: 7962.0 lumens
Efficiency: N/A
Efficacy: 67.3 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

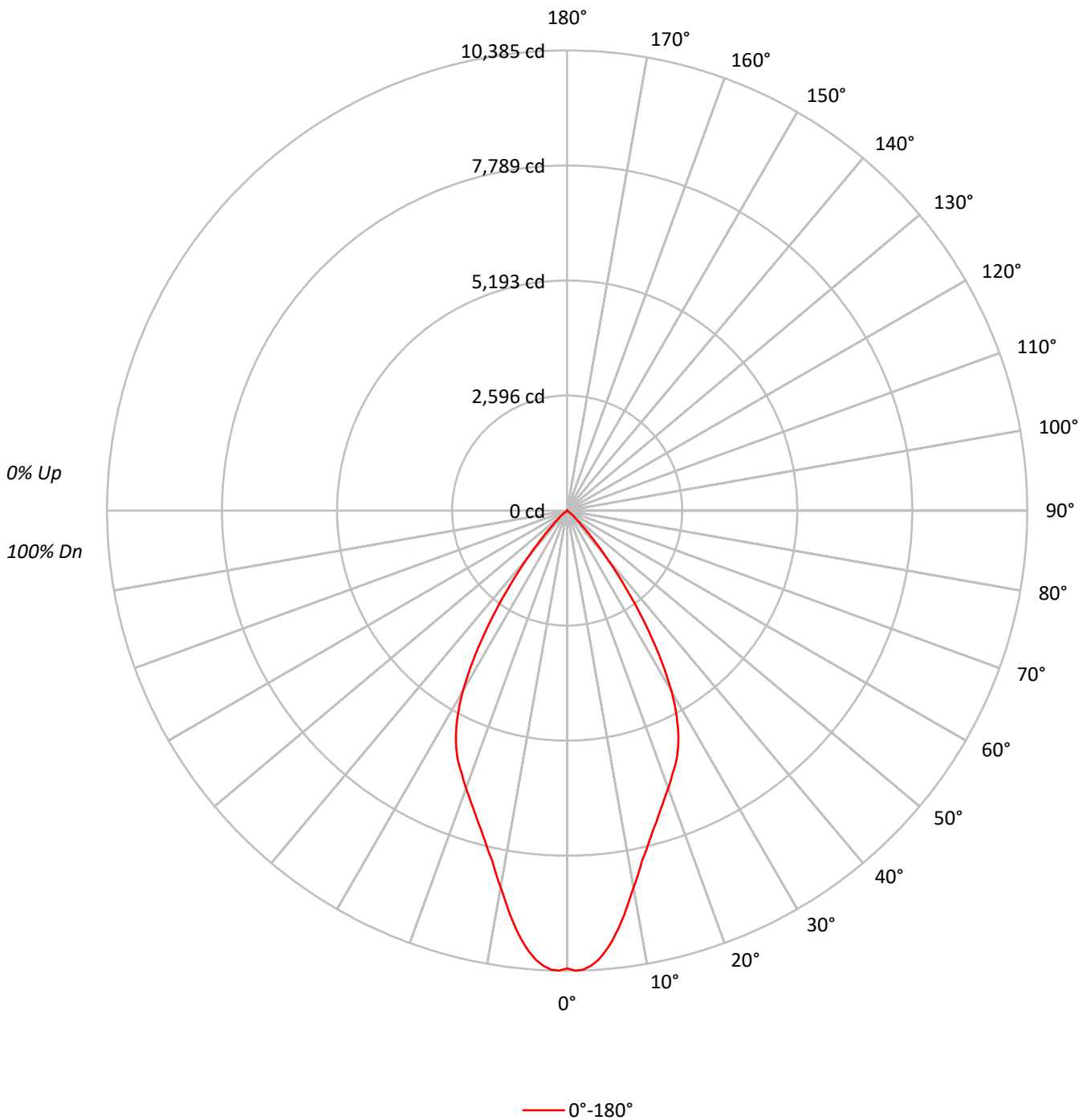
Input Watts (W): 118.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	318570
5°	308829
10°	270470
15°	238789
20°	218813
25°	201477
30°	167690
35°	111382
40°	54210
45°	19633
50°	5905
55°	414
60°	0
65°	285
70°	0
75°	0
80°	693
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	907.4	11.4
10°-20°	2107.3	26.5
20°-30°	2673.5	33.6
30°-40°	1831.5	23.0
40°-50°	417.4	5.2
50°-60°	20.8	0.3
60°-70°	1.0	0.0
70°-80°	1.5	0.0
80°-90°	1.6	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°	5688.2	71.4
0°-40°	7519.8	94.4
0°-60°	7957.9	99.9
0°-90°	7962.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7962.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	10331	
5°	9977	907
15°	7480	2107
25°	5922	2673
35°	2959	1832
45°	450	417
55°	8	21
65°	4	1
75°	0	2
85°	0	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	10331.0
1°	10384.8
2°	10365.5
3°	10288.6
4°	10157.7
5°	9977.0
6°	9757.6
7°	9503.7
8°	9222.8
9°	8922.6
10°	8637.9
11°	8376.3
12°	8095.5
13°	7891.6
14°	7676.1
15°	7479.9
16°	7302.9
17°	7129.6
18°	6968.1
19°	6810.3
20°	6668.0
21°	6521.7
22°	6371.7
23°	6240.9
24°	6094.7
25°	5921.6
26°	5729.1
27°	5506.0
28°	5267.4
29°	5002.0
30°	4709.5
31°	4378.6
32°	4036.2
33°	3678.4
34°	3312.8
35°	2958.8
37.5°	2089.3
40°	1346.7
42.5°	792.6
45°	450.2
47.5°	242.4
50°	123.1
52.5°	23.1
55°	7.7
57.5°	3.9



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CANDELA DISTRIBUTION (continued):

	0°
60°	0.0
62.5°	0.0
65°	3.9
67.5°	0.0
70°	0.0
72.5°	3.9
75°	0.0
77.5°	0.0
80°	3.9
82.5°	0.0
85°	0.0
87.5°	3.9
90°	0.0

(END OF REPORT)