

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: P249871

Luminaire Tested: **LSR8B120D010 EC8B120827 8LBM0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P249871
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13954)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B120D010 EC8B120827 8LBM0H
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 2700 CCT WITH SEMI-SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11247.0 lumens
Efficiency: N/A
Efficacy: 95.1 lumens/watt
Spacing Criteria (0/90/45): 0.92 / 0.92 / 0.93
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

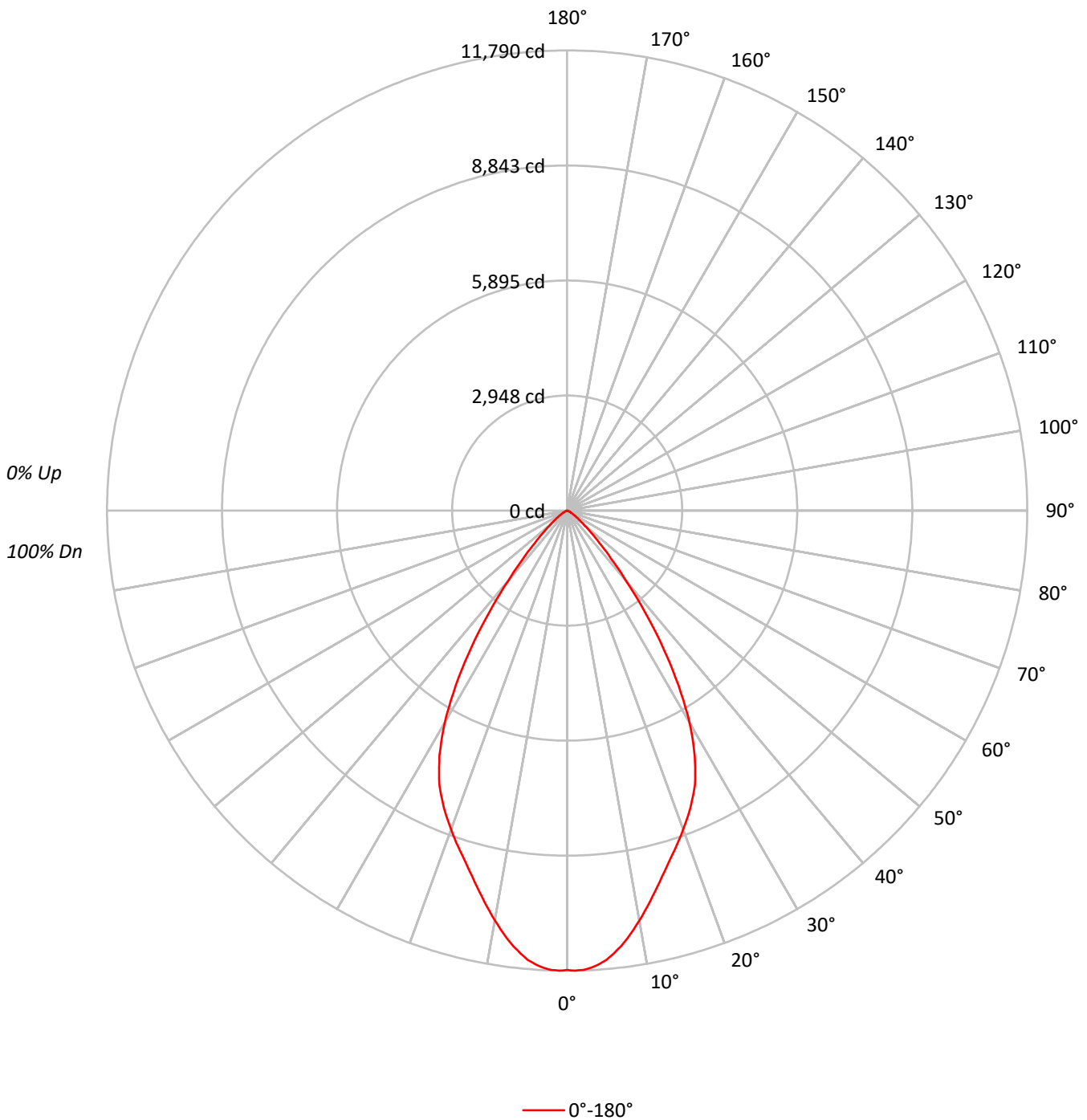
Input Watts (W): 118.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	113	110	108	105	111	108	106	104	104	102	101	100	99	98	97	96	95	93
2	107	102	98	94	105	100	97	93	97	94	91	94	92	89	91	89	87	86
3	101	95	90	85	99	93	89	85	91	87	83	88	85	82	86	83	81	79
4	96	88	82	78	94	87	82	77	85	80	76	83	79	76	81	77	75	73
5	91	82	76	71	89	81	75	71	79	74	70	78	73	70	76	72	69	68
6	86	77	70	66	84	76	70	66	74	69	65	73	68	65	71	67	64	63
7	81	72	65	61	80	71	65	61	70	64	60	68	64	60	67	63	60	58
8	77	67	61	57	76	67	61	56	65	60	56	64	60	56	63	59	56	54
9	73	63	57	53	72	63	57	53	62	56	53	61	56	52	60	55	52	51
10	70	60	53	49	69	59	53	49	58	53	49	57	53	49	57	52	49	48

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	363005
5°	357659
10°	333786
15°	306382
20°	285352
25°	263639
30°	223571
35°	160831
40°	94746
45°	50635
50°	26419
55°	14897
60°	8221
65°	4859
70°	2218
75°	1251
80°	622
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1073.2	9.5
10°-20°	2700.2	24.0
20°-30°	3505.4	31.2
30°-40°	2645.8	23.5
40°-50°	968.1	8.6
50°-60°	270.6	2.4
60°-70°	71.1	0.6
70°-80°	12.0	0.1
80°-90°	0.5	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°	7278.8	64.7
0°-40°	9924.7	88.2
0°-60°	11163.4	99.3
0°-90°	11247.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11247.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	11772	
5°	11554	###
15°	9597	2700
25°	7749	3505
35°	4272	2646
45°	1161	968
55°	277	271
65°	67	71
75°	10	12
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	11772.0
1°	11789.5
2°	11775.5
3°	11729.9
4°	11652.7
5°	11554.5
6°	11410.7
7°	11252.9
8°	11070.5
9°	10870.5
10°	10660.0
11°	10449.6
12°	10232.1
13°	10011.1
14°	9800.6
15°	9597.2
16°	9404.3
17°	9218.4
18°	9050.0
19°	8874.6
20°	8695.7
22.5°	8250.2
25°	7748.6
27.5°	7085.7
30°	6278.9
32.5°	5307.2
35°	4272.4
37.5°	3262.2
40°	2353.7
42.5°	1666.2
45°	1161.1
47.5°	817.3
50°	550.7
52.5°	403.4
55°	277.1
57.5°	199.9
60°	133.3
62.5°	98.2
65°	66.6
67.5°	45.6
70°	24.6
72.5°	17.5
75°	10.5
77.5°	3.5
80°	3.5



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CANDELA DISTRIBUTION (continued):

	0°
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)