

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: P250739

Luminaire Tested: **LSR8B120D010 EC8B120850 8LBM0MW**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P250739
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13935)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B120D010 EC8B120850 8LBM0MW
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 5000 CCT WITH MATTE WHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12463.0 lumens
Efficiency: N/A
Efficacy: 105.4 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 0.86 / 0.93
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

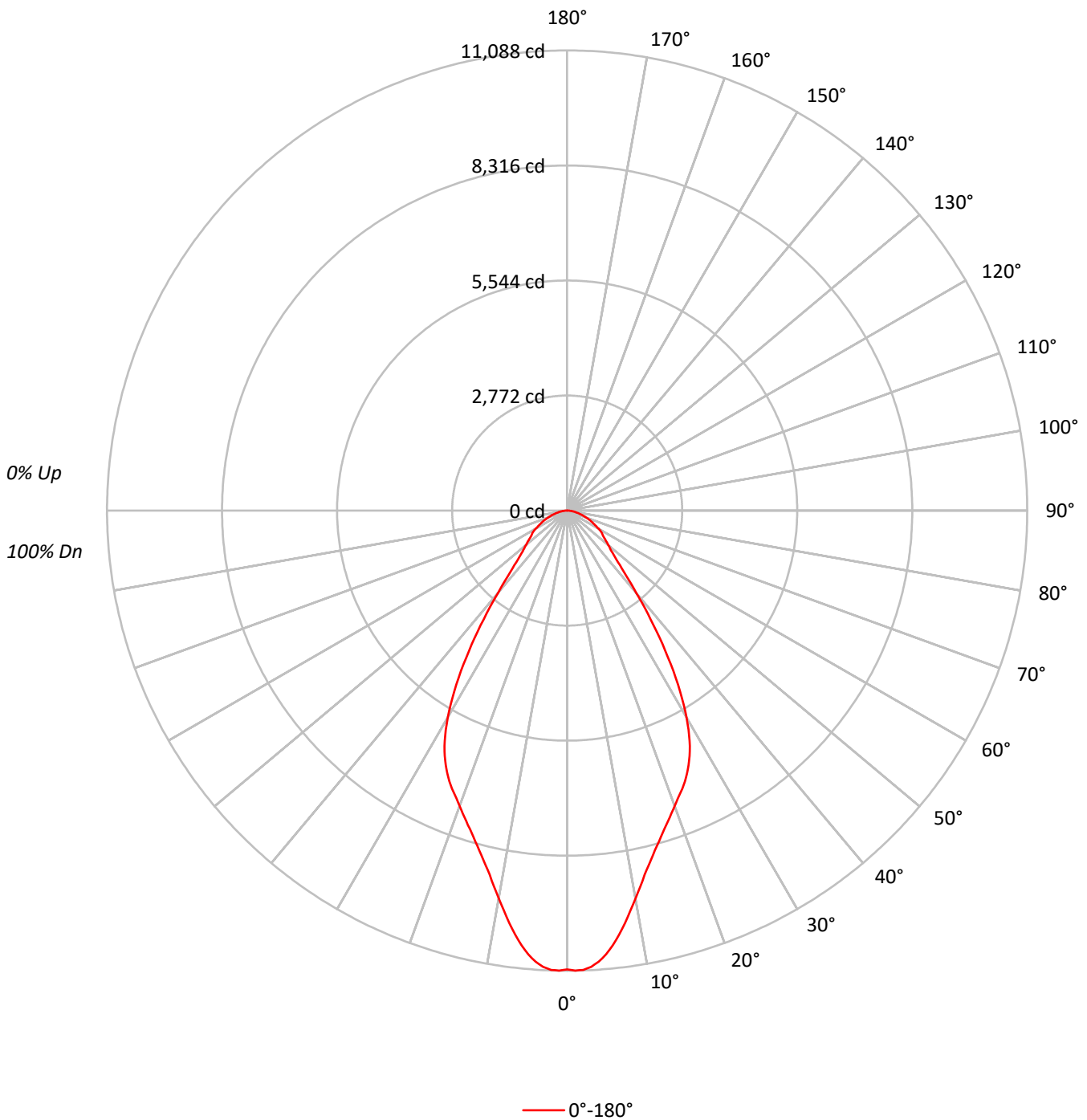
Input Watts (W): 118.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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					100			
1	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	91	89					89			
2	104	98	93	88	102	96	91	87	93	89	85	90	86	83	87	84	82	80					80			
3	97	89	83	78	95	88	82	77	85	80	76	82	78	75	80	76	73	71					71			
4	91	82	75	69	89	80	74	69	78	72	68	76	71	67	74	70	66	65					65			
5	85	75	68	63	83	74	67	62	72	66	62	70	65	61	69	64	60	59					59			
6	80	69	62	57	78	68	62	57	67	61	56	65	60	56	64	59	55	54					54			
7	75	64	57	52	74	64	57	52	62	56	52	61	55	51	60	55	51	49					49			
8	71	60	53	48	70	59	53	48	58	52	48	57	51	47	56	51	47	46					46			
9	67	56	49	44	66	56	49	44	54	48	44	54	48	44	53	48	44	42					42			
10	64	53	46	41	63	52	46	41	51	45	41	50	45	41	50	45	41	39					39			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	340905
5°	332271
10°	297051
15°	266943
20°	248599
25°	234202
30°	204781
35°	155147
40°	104213
45°	73433
50°	62273
55°	56799
60°	53816
65°	48412
70°	43556
75°	39091
80°	34575
85°	33187



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	982.5	7.9
10°-20°	2358.2	18.9
20°-30°	3125.0	25.1
30°-40°	2562.5	20.6
40°-50°	1364.8	11.0
50°-60°	960.6	7.7
60°-70°	662.4	5.3
70°-80°	345.0	2.8
80°-90°	102.0	0.8
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°	6465.7	51.9
0°-40°	9028.2	72.4
0°-60°	11353.6	91.1
0°-90°	12463.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12463.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	11055	
5°	10734	983
15°	8362	2358
25°	6883	3125
35°	4121	2563
45°	1684	1365
55°	1056	961
65°	664	662
75°	328	345
85°	94	102
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	11055.3
1°	11087.8
2°	11073.3
3°	11008.4
4°	10896.7
5°	10734.3
6°	10532.5
7°	10290.9
8°	10031.3
9°	9753.6
10°	9486.8
11°	9230.8
12°	8971.1
13°	8754.8
14°	8549.3
15°	8361.8
16°	8185.1
17°	8022.9
18°	7871.4
19°	7720.0
20°	7575.7
21°	7435.1
22°	7312.5
23°	7186.3
24°	7038.5
25°	6883.4
26°	6706.8
27°	6508.4
28°	6284.9
29°	6036.1
30°	5751.2
31°	5451.9
32°	5138.3
33°	4802.9
34°	4467.6
35°	4121.4
37.5°	3302.9
40°	2588.9
42.5°	2044.5
45°	1683.9
47.5°	1446.0
50°	1298.1
52.5°	1168.3
55°	1056.5
57.5°	988.0



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CANDELA DISTRIBUTION (continued):

	0°
60°	872.6
62.5°	760.8
65°	663.5
67.5°	576.9
70°	483.1
72.5°	403.8
75°	328.1
77.5°	238.0
80°	194.7
82.5°	140.6
85°	93.8
87.5°	43.2
90°	0.0

(END OF REPORT)