

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: P250708

Luminaire Tested: **LSR8B80D010 EC8B80827 8LBM0MW**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P250708
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: LSR8B80D010 EC8B80827 8LBM0MW
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 2700 CCT WITH MATTE WHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7835.0 lumens
Efficiency: N/A
Efficacy: 105.3 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

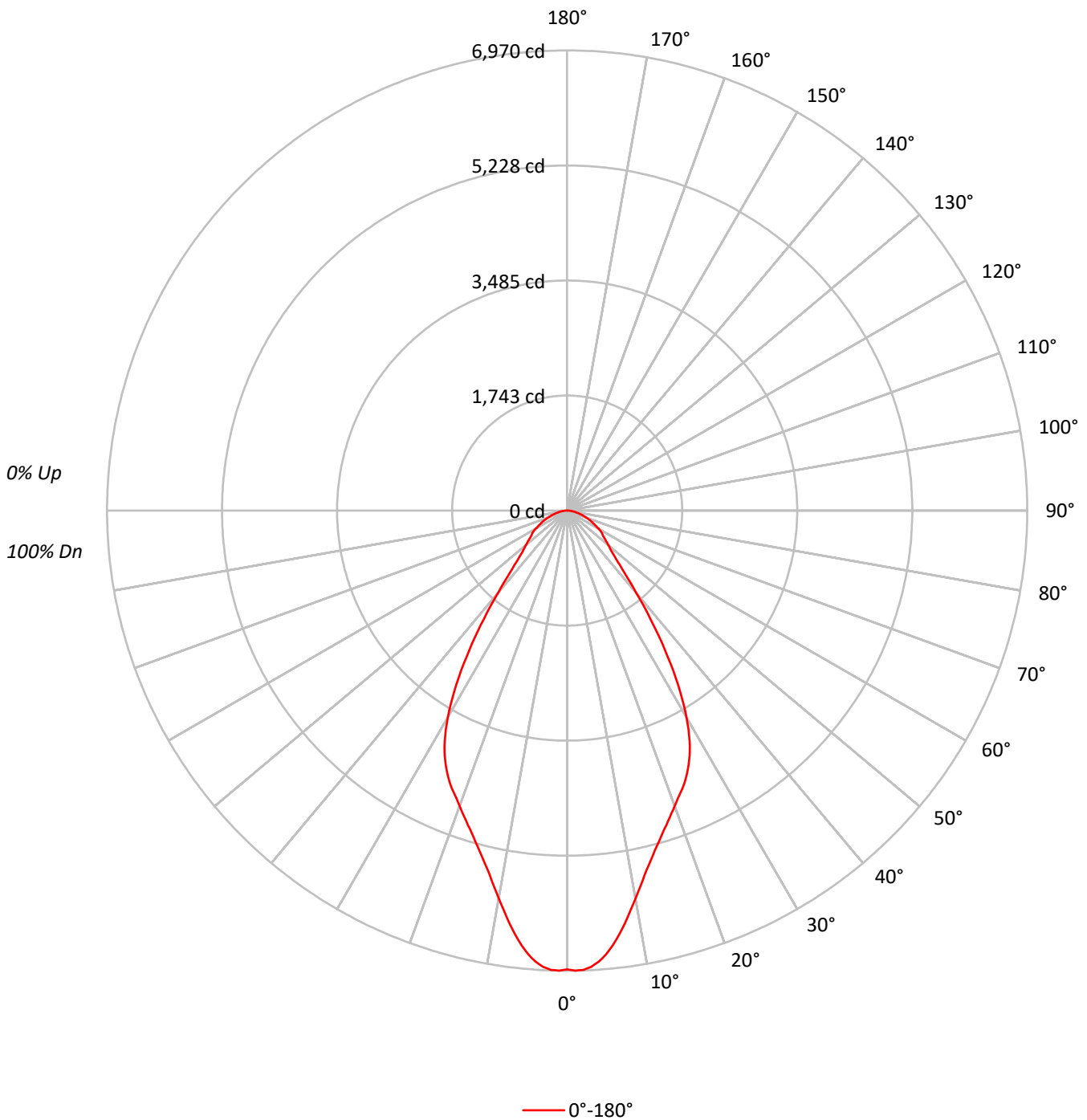
Input Watts (W): 74.4
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	214312
5°	208888
10°	186745
15°	167819
20°	156286
25°	147233
30°	128736
35°	97532
40°	65517
45°	46165
50°	39151
55°	35708
60°	33827
65°	30434
70°	27381
75°	24579
80°	21736
85°	20875



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	617.7	7.9
10°-20°	1482.5	18.9
20°-30°	1964.6	25.1
30°-40°	1611.0	20.6
40°-50°	858.0	11.0
50°-60°	603.9	7.7
60°-70°	416.4	5.3
70°-80°	216.9	2.8
80°-90°	64.2	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°	4064.7	51.9
0°-40°	5675.7	72.4
0°-60°	7137.6	91.1
0°-90°	7835.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7835.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	6950	
5°	6748	618
15°	5257	1482
25°	4327	1965
35°	2591	1611
45°	1059	858
55°	664	604
65°	417	416
75°	206	217
85°	59	64
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	6950.0
1°	6970.5
2°	6961.4
3°	6920.5
4°	6850.3
5°	6748.3
6°	6621.4
7°	6469.5
8°	6306.3
9°	6131.7
10°	5964.0
11°	5803.0
12°	5639.8
13°	5503.8
14°	5374.6
15°	5256.8
16°	5145.7
17°	5043.7
18°	4948.4
19°	4853.2
20°	4762.6
21°	4674.1
22°	4597.1
23°	4517.7
24°	4424.8
25°	4327.3
26°	4216.3
27°	4091.6
28°	3951.1
29°	3794.6
30°	3615.5
31°	3427.4
32°	3230.2
33°	3019.4
34°	2808.6
35°	2590.9
37.5°	2076.4
40°	1627.6
42.5°	1285.3
45°	1058.6
47.5°	909.0
50°	816.1
52.5°	734.5
55°	664.2
57.5°	621.1



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CANDELA DISTRIBUTION (continued):

	0°
60°	548.5
62.5°	478.3
65°	417.1
67.5°	362.7
70°	303.7
72.5°	253.9
75°	206.3
77.5°	149.6
80°	122.4
82.5°	88.4
85°	59.0
87.5°	27.2
90°	0.0

(END OF REPORT)