

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: P250775

Luminaire Tested: **LSR8B150D010 EC8B150950 8LBM0MW**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P250775
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: LSR8B150D010 EC8B150950 8LBM0MW
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
90 CRI 5000 CCT WITH MATTE WHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14829.0 lumens
Efficiency: N/A
Efficacy: 93.6 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

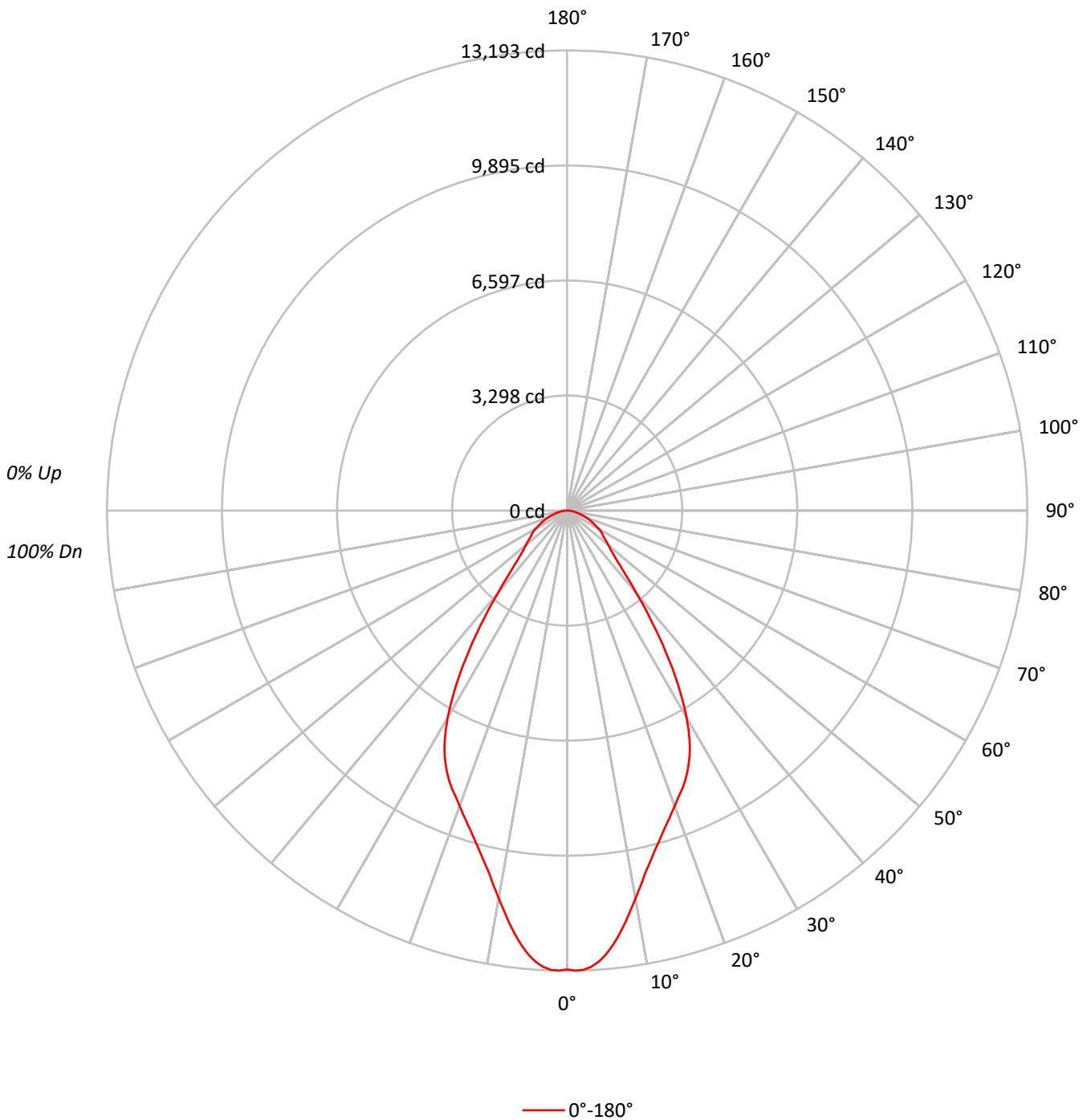
Input Watts (W): 158.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	405624
5°	395352
10°	353444
15°	317622
20°	295794
25°	278664
30°	243657
35°	184600
40°	123998
45°	87375
50°	74094
55°	67584
60°	64029
65°	57599
70°	51833
75°	46513
80°	41145
85°	39485



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1169.0	7.9
10°-20°	2805.8	18.9
20°-30°	3718.3	25.1
30°-40°	3049.0	20.6
40°-50°	1623.9	11.0
50°-60°	1142.9	7.7
60°-70°	788.1	5.3
70°-80°	410.5	2.8
80°-90°	121.4	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°	7693.1	51.9
0°-40°	10742.1	72.4
0°-60°	13509.0	91.1
0°-90°	14829.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	14829.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	13154	
5°	12772	###
15°	9949	2806
25°	8190	3718
35°	4904	3049
45°	2004	1624
55°	1257	1143
65°	789	788
75°	390	410
85°	112	121
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	13154.1
1°	13192.7
2°	13175.5
3°	13098.2
4°	12965.3
5°	12772.2
6°	12532.0
7°	12244.6
8°	11935.6
9°	11605.3
10°	11287.8
11°	10983.2
12°	10674.2
13°	10416.8
14°	10172.3
15°	9949.3
16°	9739.0
17°	9545.9
18°	9365.7
19°	9185.5
20°	9013.9
21°	8846.6
22°	8700.8
23°	8550.5
24°	8374.7
25°	8190.2
26°	7980.0
27°	7744.0
28°	7478.0
29°	7182.0
30°	6843.0
31°	6486.9
32°	6113.7
33°	5714.7
34°	5315.7
35°	4903.8
37.5°	3929.9
40°	3080.4
42.5°	2432.6
45°	2003.6
47.5°	1720.5
50°	1544.5
52.5°	1390.1
55°	1257.1
57.5°	1175.5



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CANDELA DISTRIBUTION (continued):

	0°
60°	1038.2
62.5°	905.2
65°	789.4
67.5°	686.4
70°	574.9
72.5°	480.5
75°	390.4
77.5°	283.1
80°	231.7
82.5°	167.3
85°	111.6
87.5°	51.4
90°	0.0

(END OF REPORT)