

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: P250772

Luminaire Tested: **LSR8B90D010 EC8B90950 8LBM0MW**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P250772
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: LSR8B90D010 EC8B90950 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: 8675.0 lumens
Efficiency: N/A
Efficacy: 100.8 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

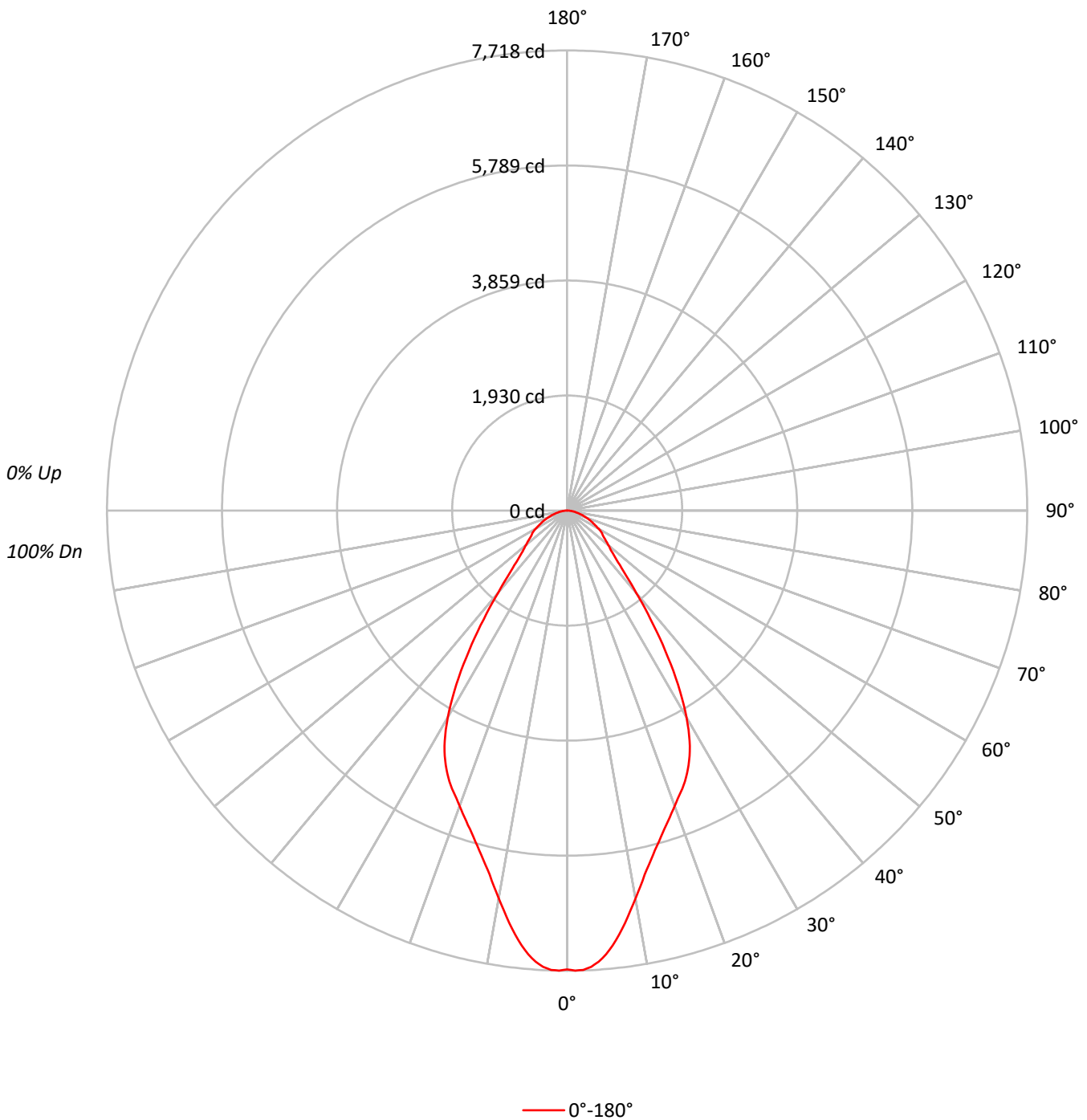
Input Watts (W): 86.1
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	237292
5°	231283
10°	206766
15°	185808
20°	173042
25°	163020
30°	142541
35°	107990
40°	72542
45°	51114
50°	43343
55°	39536
60°	37460
65°	33695
70°	30321
75°	27212
80°	24062
85°	23104



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	683.9	7.9
10°-20°	1641.4	18.9
20°-30°	2175.2	25.1
30°-40°	1783.7	20.6
40°-50°	950.0	11.0
50°-60°	668.6	7.7
60°-70°	461.1	5.3
70°-80°	240.1	2.8
80°-90°	71.0	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°	4500.5	51.9
0°-40°	6284.2	72.4
0°-60°	7902.8	91.1
0°-90°	8675.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8675.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	7695	
5°	7472	684
15°	5820	1641
25°	4791	2175
35°	2869	1784
45°	1172	950
55°	735	669
65°	462	461
75°	228	240
85°	65	71
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	7695.2
1°	7717.8
2°	7707.7
3°	7662.5
4°	7584.7
5°	7471.8
6°	7331.2
7°	7163.1
8°	6982.4
9°	6789.1
10°	6603.4
11°	6425.2
12°	6244.4
13°	6093.9
14°	5950.8
15°	5820.3
16°	5697.3
17°	5584.4
18°	5479.0
19°	5373.6
20°	5273.2
21°	5175.3
22°	5090.0
23°	5002.1
24°	4899.2
25°	4791.3
26°	4668.3
27°	4530.3
28°	4374.6
29°	4201.5
30°	4003.2
31°	3794.9
32°	3576.5
33°	3343.1
34°	3109.7
35°	2868.7
37.5°	2299.0
40°	1802.1
42.5°	1423.1
45°	1172.1
47.5°	1006.5
50°	903.5
52.5°	813.2
55°	735.4
57.5°	687.7



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CANDELA DISTRIBUTION (continued):

	0°
60°	607.4
62.5°	529.6
65°	461.8
67.5°	401.6
70°	336.3
72.5°	281.1
75°	228.4
77.5°	165.6
80°	135.5
82.5°	97.9
85°	65.3
87.5°	30.1
90°	0.0

(END OF REPORT)