

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: P247303

Luminaire Tested: **LSR8B90D010 EC8B90850 8LBM0WMH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247303
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P201734)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B90D010 EC8B90850 8LBM0WMH
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 5000 CCT WITH WARM HAZE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9081.9 lumens
Efficiency: N/A
Efficacy: 105.5 lumens/watt
Spacing Criteria (0/90/45): 0.9 / 0.9 / 0.9
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

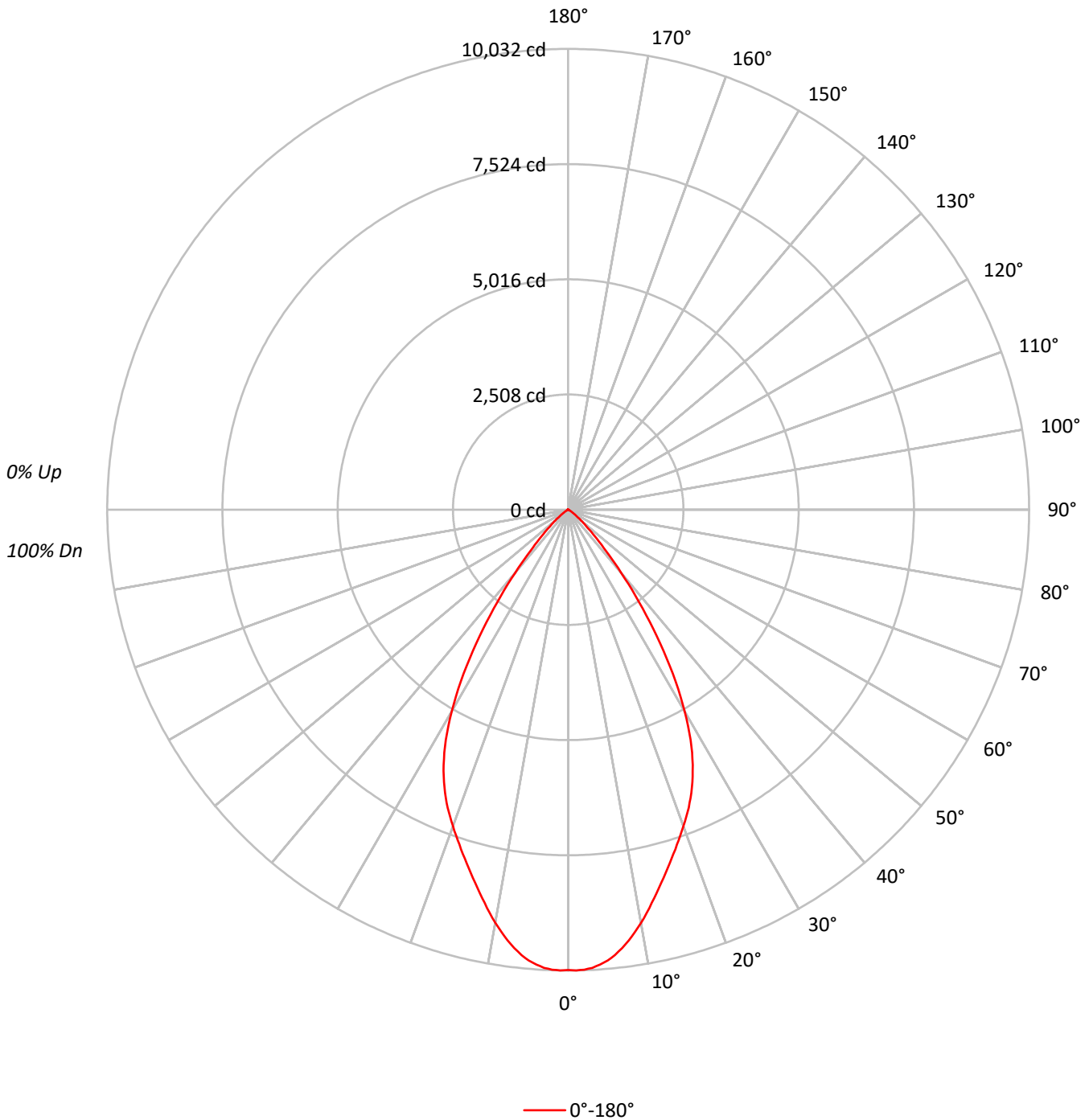
Input Watts (W): 86.1
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	113	111	108	106	111	108	106	104	104	103	101	101	99	98	97	96	95	93
2	108	103	99	95	105	101	97	94	98	95	92	95	92	90	92	90	88	86
3	102	95	90	86	100	94	89	86	91	87	84	89	86	83	87	84	82	80
4	97	89	83	79	95	88	82	78	86	81	77	84	80	77	82	78	76	74
5	92	83	77	73	90	82	76	72	80	75	72	79	74	71	77	73	70	69
6	87	78	72	67	85	77	71	67	75	70	66	74	69	66	73	69	66	64
7	82	73	67	62	81	72	66	62	71	66	62	70	65	61	68	64	61	60
8	78	68	62	58	77	68	62	58	67	61	58	66	61	57	65	60	57	56
9	74	64	58	54	73	64	58	54	63	58	54	62	57	54	61	57	54	52
10	71	61	55	51	70	60	55	51	60	54	51	59	54	51	58	54	50	49

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	308931
5°	304947
10°	285891
15°	261430
20°	240674
25°	218078
30°	180572
35°	126635
40°	72063
45°	35367
50°	17443
55°	7914
60°	3750
65°	2028
70°	207
75°	274
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	916.8	10.1
10°-20°	2298.8	25.3
20°-30°	2901.9	32.0
30°-40°	2087.5	23.0
40°-50°	690.9	7.6
50°-60°	150.5	1.7
60°-70°	30.9	0.3
70°-80°	3.0	0.0
80°-90°	1.5	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°	6117.5	67.4
0°-40°	8205.0	90.3
0°-60°	9046.4	99.6
0°-90°	9081.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9081.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	10018	
5°	9852	917
15°	8189	2299
25°	6410	2902
35°	3364	2087
45°	811	691
55°	147	150
65°	28	31
75°	2	3
85°	0	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	10018.4
1°	10032.4
2°	10020.7
3°	9987.7
4°	9926.3
5°	9851.6
6°	9749.2
7°	9615.7
8°	9468.5
9°	9307.5
10°	9130.4
11°	8949.6
12°	8752.8
13°	8563.1
14°	8372.2
15°	8189.1
16°	8008.9
17°	7836.1
18°	7664.8
19°	7500.1
20°	7334.2
21°	7164.3
22°	6998.4
23°	6817.9
24°	6623.3
25°	6409.5
26°	6185.1
27°	5935.1
28°	5670.8
29°	5377.2
30°	5071.3
31°	4749.6
32°	4411.0
33°	4055.7
34°	3708.1
35°	3364.0
37.5°	2526.3
40°	1790.2
42.5°	1212.8
45°	811.0
47.5°	544.1
50°	363.6
52.5°	219.5
55°	147.2
57.5°	102.5



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CANDELA DISTRIBUTION (continued):

	0°
60°	60.8
62.5°	41.6
65°	27.8
67.5°	25.0
70°	2.3
72.5°	5.7
75°	2.3
77.5°	2.3
80°	0.0
82.5°	5.7
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)