

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: P249876

Luminaire Tested: **LSR8B90D010 EC8B90830 8LBM0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P249876
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13954)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B90D010 EC8B90830 8LBM0H
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 3000 CCT WITH SEMI-SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8813.9 lumens
Efficiency: N/A
Efficacy: 102.4 lumens/watt
Spacing Criteria (0/90/45): 0.92 / 0.92 / 0.93
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

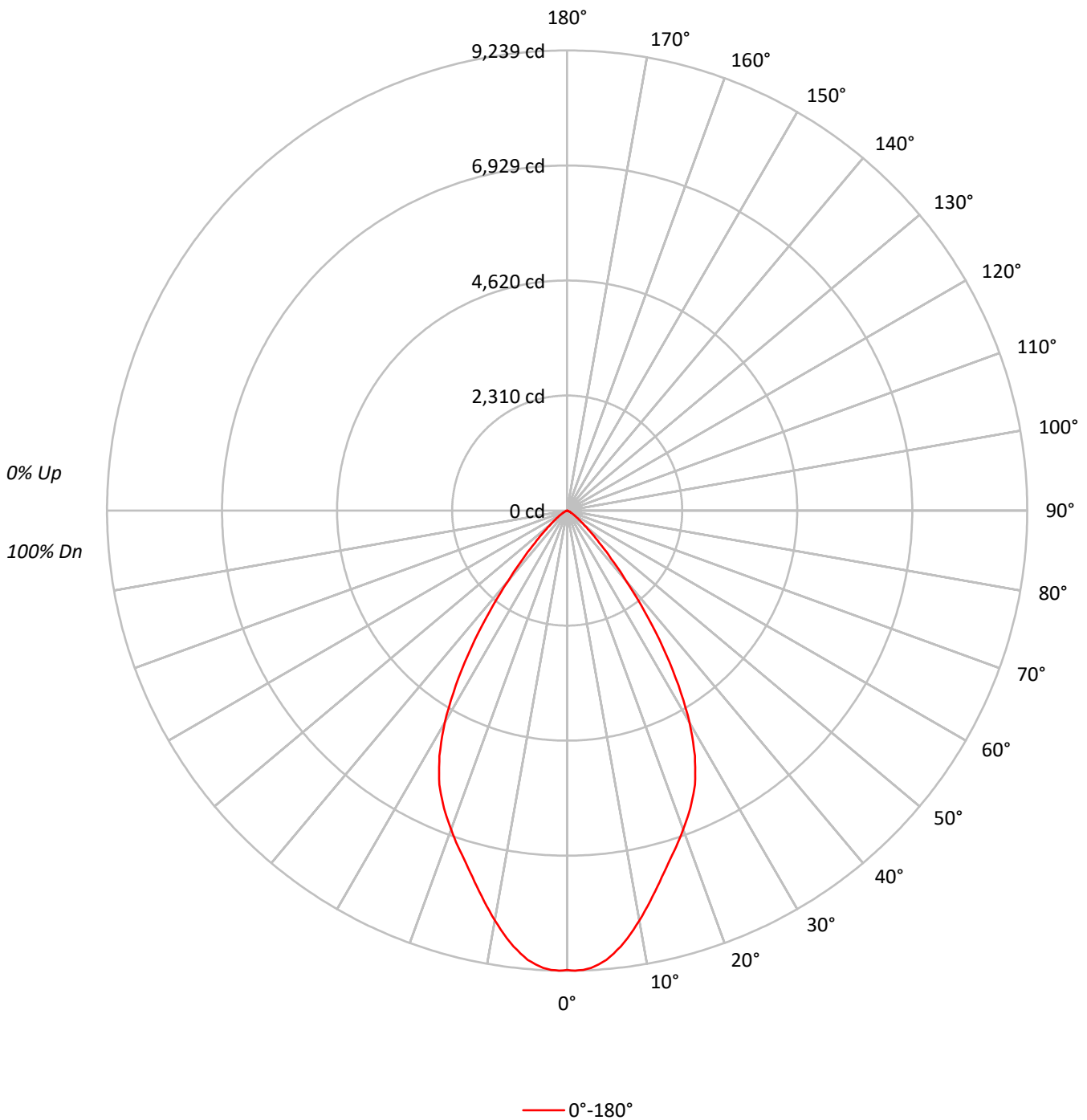
Input Watts (W): 86.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	113	110	108	105	111	108	106	104	104	102	101		100	99	98		97	96	95	93
2	107	102	98	94	105	100	97	93	97	94	91		94	92	89		91	89	87	86
3	101	95	90	85	99	93	89	85	91	87	83		88	85	82		86	83	81	79
4	96	88	82	78	94	87	82	77	85	80	76		83	79	76		81	77	75	73
5	91	82	76	71	89	81	75	71	79	74	70		78	73	70		76	72	69	68
6	86	77	70	66	84	76	70	66	74	69	65		73	68	65		71	67	64	63
7	81	72	65	61	80	71	65	61	70	64	60		68	64	60		67	63	60	58
8	77	67	61	57	76	67	61	56	65	60	56		64	60	56		63	59	56	54
9	73	63	57	53	72	63	57	53	62	56	53		61	56	52		60	55	52	51
10	70	60	53	49	69	59	53	49	58	53	49		57	53	49		57	52	49	48

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	284477
5°	280289
10°	261581
15°	240104
20°	223623
25°	206608
30°	175206
35°	126040
40°	74248
45°	39680
50°	20705
55°	11677
60°	6445
65°	3809
70°	1731
75°	977
80°	479
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	841.0	9.5
10°-20°	2116.1	24.0
20°-30°	2747.1	31.2
30°-40°	2073.5	23.5
40°-50°	758.7	8.6
50°-60°	212.1	2.4
60°-70°	55.7	0.6
70°-80°	9.3	0.1
80°-90°	0.4	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°	5704.3	64.7
0°-40°	7777.7	88.2
0°-60°	8748.5	99.3
0°-90°	8813.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8813.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	9225	
5°	9055	841
15°	7521	2116
25°	6072	2747
35°	3348	2073
45°	910	759
55°	217	212
65°	52	56
75°	8	9
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	9225.4
1°	9239.2
2°	9228.2
3°	9192.4
4°	9132.0
5°	9055.0
6°	8942.3
7°	8818.6
8°	8675.6
9°	8519.0
10°	8354.0
11°	8189.1
12°	8018.6
13°	7845.5
14°	7680.5
15°	7521.1
16°	7369.9
17°	7224.2
18°	7092.3
19°	6954.8
20°	6814.6
22.5°	6465.5
25°	6072.4
27.5°	5552.9
30°	4920.6
32.5°	4159.1
35°	3348.2
37.5°	2556.5
40°	1844.5
42.5°	1305.7
45°	909.9
47.5°	640.5
50°	431.6
52.5°	316.1
55°	217.2
57.5°	156.7
60°	104.5
62.5°	77.0
65°	52.2
67.5°	35.7
70°	19.2
72.5°	13.7
75°	8.2
77.5°	2.7
80°	2.7



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CANDELA DISTRIBUTION (continued):

	0°
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)