

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: P249897

Luminaire Tested: **LSR8B90D010 EC8B90850 8LBM0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P249897
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 EC8B90850 8LBM0H
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 5000 CCT WITH SEMI-SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9284.0 lumens
Efficiency: N/A
Efficacy: 107.8 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

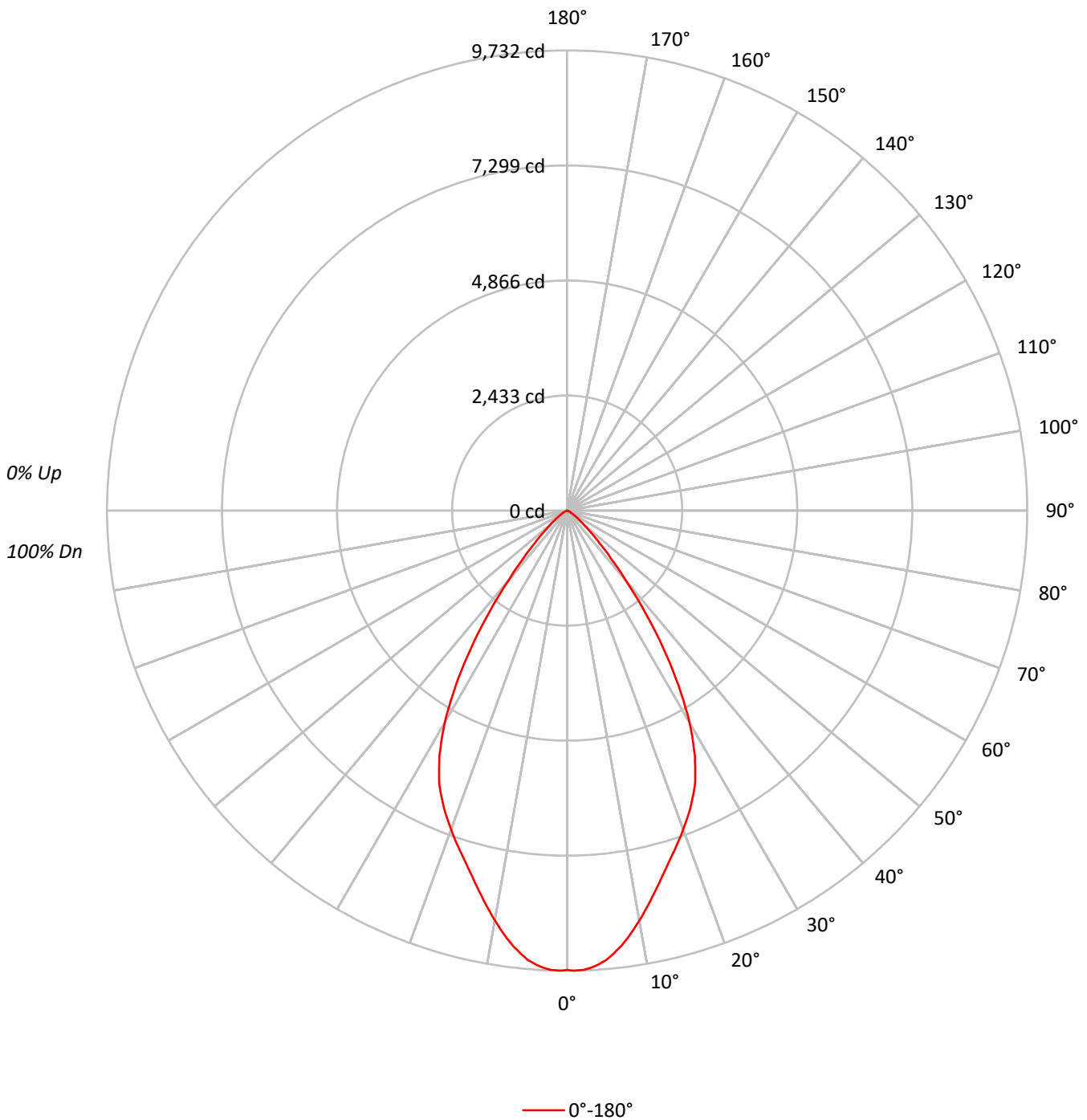
Input Watts (W): 86.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	299649
5°	295234
10°	275530
15°	252906
20°	235548
25°	217625
30°	184550
35°	132760
40°	78209
45°	41795
50°	21808
55°	12295
60°	6784
65°	4013
70°	1830
75°	1037
80°	515
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	885.9	9.5
10°-20°	2228.9	24.0
20°-30°	2893.6	31.2
30°-40°	2184.0	23.5
40°-50°	799.2	8.6
50°-60°	223.4	2.4
60°-70°	58.7	0.6
70°-80°	9.9	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°	6008.4	64.7
0°-40°	8192.4	88.2
0°-60°	9215.0	99.3
0°-90°	9284.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9284.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	9717	
5°	9538	886
15°	7922	2229
25°	6396	2894
35°	3527	2184
45°	958	799
55°	229	223
65°	55	59
75°	9	10
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	9717.4
1°	9731.8
2°	9720.3
3°	9682.6
4°	9618.9
5°	9537.8
6°	9419.1
7°	9288.8
8°	9138.3
9°	8973.2
10°	8799.5
11°	8625.8
12°	8446.2
13°	8263.8
14°	8090.1
15°	7922.1
16°	7762.9
17°	7609.4
18°	7470.4
19°	7325.7
20°	7178.0
22.5°	6810.3
25°	6396.2
27.5°	5849.0
30°	5183.0
32.5°	4380.9
35°	3526.7
37.5°	2692.8
40°	1942.9
42.5°	1375.4
45°	958.4
47.5°	674.7
50°	454.6
52.5°	333.0
55°	228.7
57.5°	165.0
60°	110.0
62.5°	81.1
65°	55.0
67.5°	37.6
70°	20.3
72.5°	14.5
75°	8.7
77.5°	2.9
80°	2.9



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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)