

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: P249834

Luminaire Tested: **LSR8B90D010 EC8B90935 8LBN0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P249834
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13959)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B90D010 EC8B90935 8LBN0H
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
90 CRI 3500 CCT WITH SEMI-SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7240.1 lumens
Efficiency: N/A
Efficacy: 84.1 lumens/watt
Spacing Criteria (0/90/45): 0.77 / 0.77 / 0.81
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

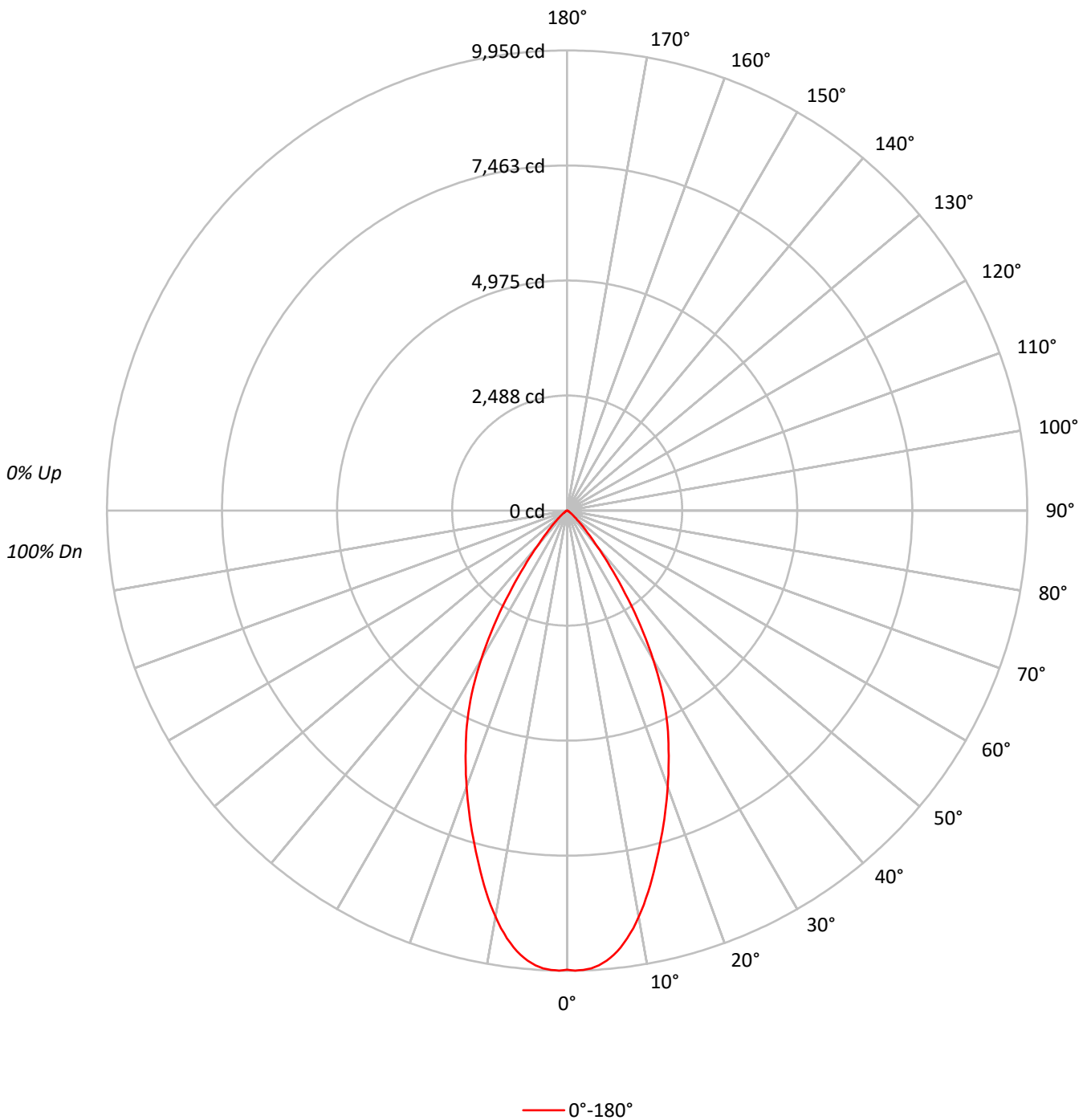
Input Watts (W): 86.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	114	111	109	106	111	109	107	105	105	103	101		101	100	98		98	97	96	94
2	108	103	100	96	106	102	98	95	99	96	93		96	93	91		93	91	89	88
3	103	97	92	88	101	95	91	87	93	89	86		90	87	85		88	85	83	82
4	98	91	85	81	96	89	84	81	87	83	80		85	82	79		83	80	78	76
5	93	85	79	75	92	84	79	75	82	78	74		81	77	74		79	76	73	71
6	89	80	74	70	87	79	74	70	78	73	69		76	72	69		75	71	68	67
7	84	75	70	66	83	75	69	65	74	69	65		72	68	65		71	67	64	63
8	81	71	65	62	79	71	65	61	70	65	61		69	64	61		68	64	61	59
9	77	68	62	58	76	67	62	58	66	61	58		65	61	57		64	60	57	56
10	73	64	58	55	72	64	58	55	63	58	54		62	57	54		61	57	54	53

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	306208
5°	302449
10°	279325
15°	243565
20°	208637
25°	174642
30°	132866
35°	82362
40°	40632
45°	19341
50°	9403
55°	4613
60°	2874
65°	1970
70°	1109
75°	882
80°	870
85°	885



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	905.5	12.5
10°-20°	2125.9	29.4
20°-30°	2323.5	32.1
30°-40°	1382.7	19.1
40°-50°	379.3	5.2
50°-60°	86.0	1.2
60°-70°	26.6	0.4
70°-80°	8.1	0.1
80°-90°	2.7	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°	5354.9	74.0
0°-40°	6737.5	93.1
0°-60°	7202.8	99.5
0°-90°	7240.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7240.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	9930	
5°	9771	906
15°	7630	2126
25°	5133	2323
35°	2188	1383
45°	444	379
55°	86	86
65°	27	27
75°	7	8
85°	2	3
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	9930.1
1°	9949.7
2°	9937.5
3°	9913.0
4°	9856.6
5°	9770.9
6°	9660.6
7°	9513.6
8°	9342.1
9°	9143.7
10°	8920.7
11°	8683.0
12°	8428.2
13°	8166.1
14°	7894.1
15°	7629.5
16°	7369.8
17°	7115.0
18°	6860.2
19°	6605.4
20°	6357.9
22.5°	5735.6
25°	5132.9
27.5°	4468.9
30°	3731.5
32.5°	2940.1
35°	2187.9
37.5°	1521.5
40°	1009.4
42.5°	661.5
45°	443.5
47.5°	294.0
50°	196.0
52.5°	120.1
55°	85.8
57.5°	61.3
60°	46.6
62.5°	34.3
65°	27.0
67.5°	17.2
70°	12.3
72.5°	9.8
75°	7.4
77.5°	4.9
80°	4.9



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CANDELA DISTRIBUTION (continued):

	0°
82.5°	2.5
85°	2.5
87.5°	2.5
90°	0.0

(END OF REPORT)