

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: P247027

Luminaire Tested: **LSR8B90D010 EC8B90935 8LBN0LI**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247027
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-80)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B90D010 EC8B90935 8LBN0LI
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
90 CRI 3500 CCT WITH SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7653.0 lumens
Efficiency: N/A
Efficacy: 88.9 lumens/watt
Spacing Criteria (0/90/45): 0.47 / 0.47 / 0.56
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

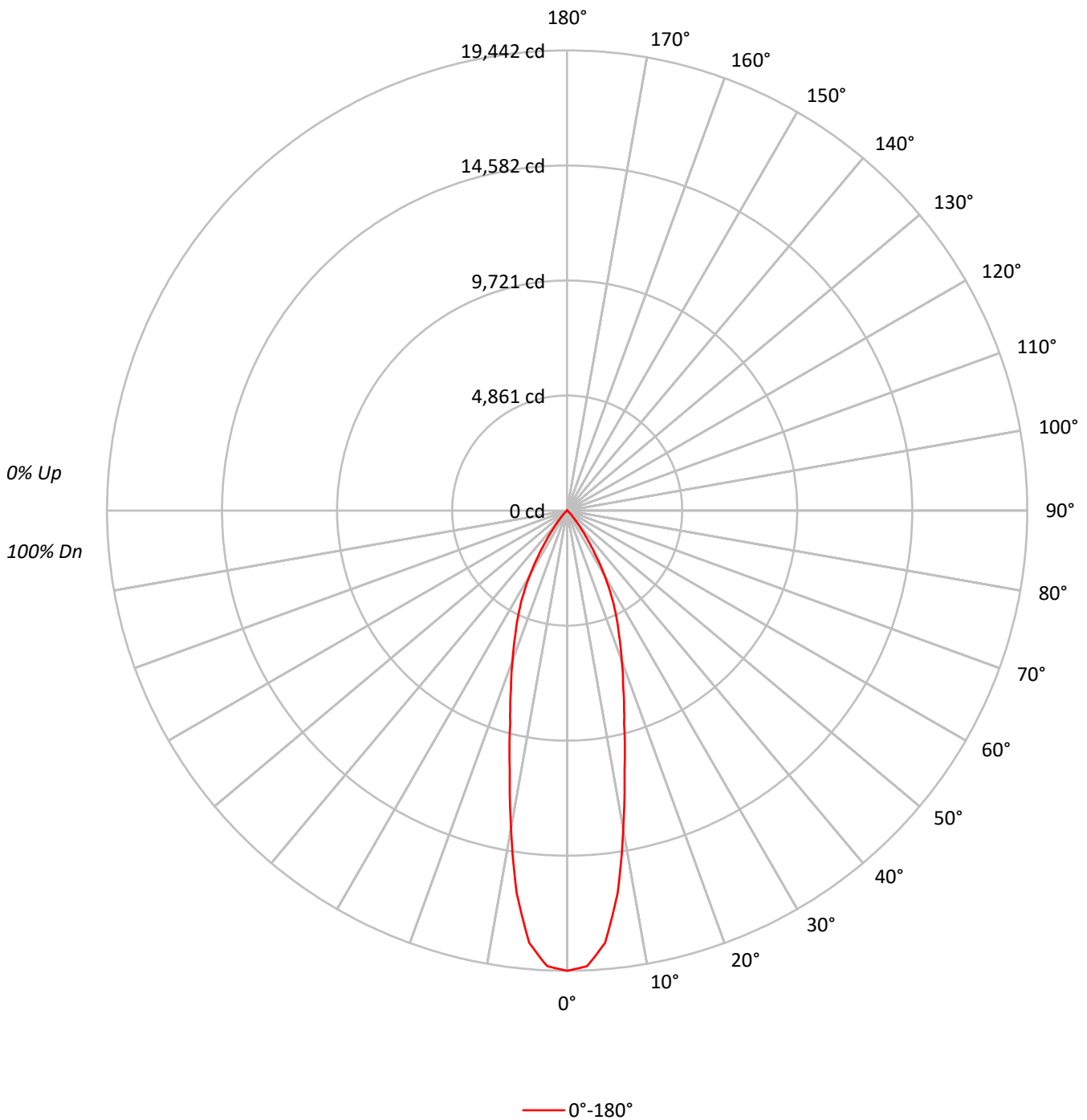
Input Watts (W): 86.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	112	110	108	112	110	108	106	106	104	103		102	101	100		99	98	97	95
2	110	105	102	99	107	104	100	98	100	98	96		98	95	94		95	93	92	90
3	105	100	95	92	103	98	94	91	96	92	90		93	91	88		91	89	87	85
4	101	94	90	86	99	93	89	85	91	87	84		89	86	83		87	85	83	81
5	97	90	85	81	95	89	84	80	87	83	80		85	82	79		84	81	78	77
6	93	85	80	76	91	84	80	76	83	79	76		82	78	75		80	77	75	73
7	89	81	76	72	88	81	76	72	79	75	72		78	74	72		77	74	71	70
8	86	78	72	69	85	77	72	69	76	72	69		75	71	68		74	71	68	67
9	82	74	69	66	81	74	69	66	73	69	65		72	68	65		71	68	65	64
10	79	71	66	63	79	71	66	63	70	66	63		69	65	62		69	65	62	61

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	599507
5°	567609
10°	427478
15°	297127
20°	221497
25°	166718
30°	111481
35°	58352
40°	22538
45°	8334
50°	2120
55°	414
60°	62
65°	212
70°	261
75°	0
80°	0
85°	354



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1594.5	20.8
10°-20°	2636.9	34.5
20°-30°	2223.1	29.0
30°-40°	1008.8	13.2
40°-50°	176.1	2.3
50°-60°	9.6	0.1
60°-70°	1.5	0.0
70°-80°	1.6	0.0
80°-90°	1.1	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°	6454.5	84.3
0°-40°	7463.2	97.5
0°-60°	7648.9	99.9
0°-90°	7653.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7653.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	19442	
5°	18337	###
15°	9307	2637
25°	4900	2223
35°	1550	1009
45°	191	176
55°	8	10
65°	3	1
75°	0	2
85°	1	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	19441.6
2.5°	19269.7
5°	18337.1
7.5°	16305.9
10°	13652.2
12.5°	11199.4
15°	9307.3
17.5°	7885.9
20°	6749.8
22.5°	5750.0
25°	4900.0
27.5°	4035.6
30°	3130.9
32.5°	2279.1
35°	1550.1
37.5°	951.8
40°	559.9
42.5°	328.5
45°	191.1
47.5°	114.3
50°	44.2
52.5°	6.7
55°	7.7
57.5°	6.7
60°	1.0
62.5°	1.0
65°	2.9
67.5°	0.0
70°	2.9
72.5°	4.8
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.0
85°	1.0
87.5°	2.9
90°	0.0

(END OF REPORT)