

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: P247011

Luminaire Tested: **LSR8B90D010 EC8B90840 8LBN0LI**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247011
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 EC8B90840 8LBNOLI
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 4000 CCT WITH SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8916.0 lumens
Efficiency: N/A
Efficacy: 103.6 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

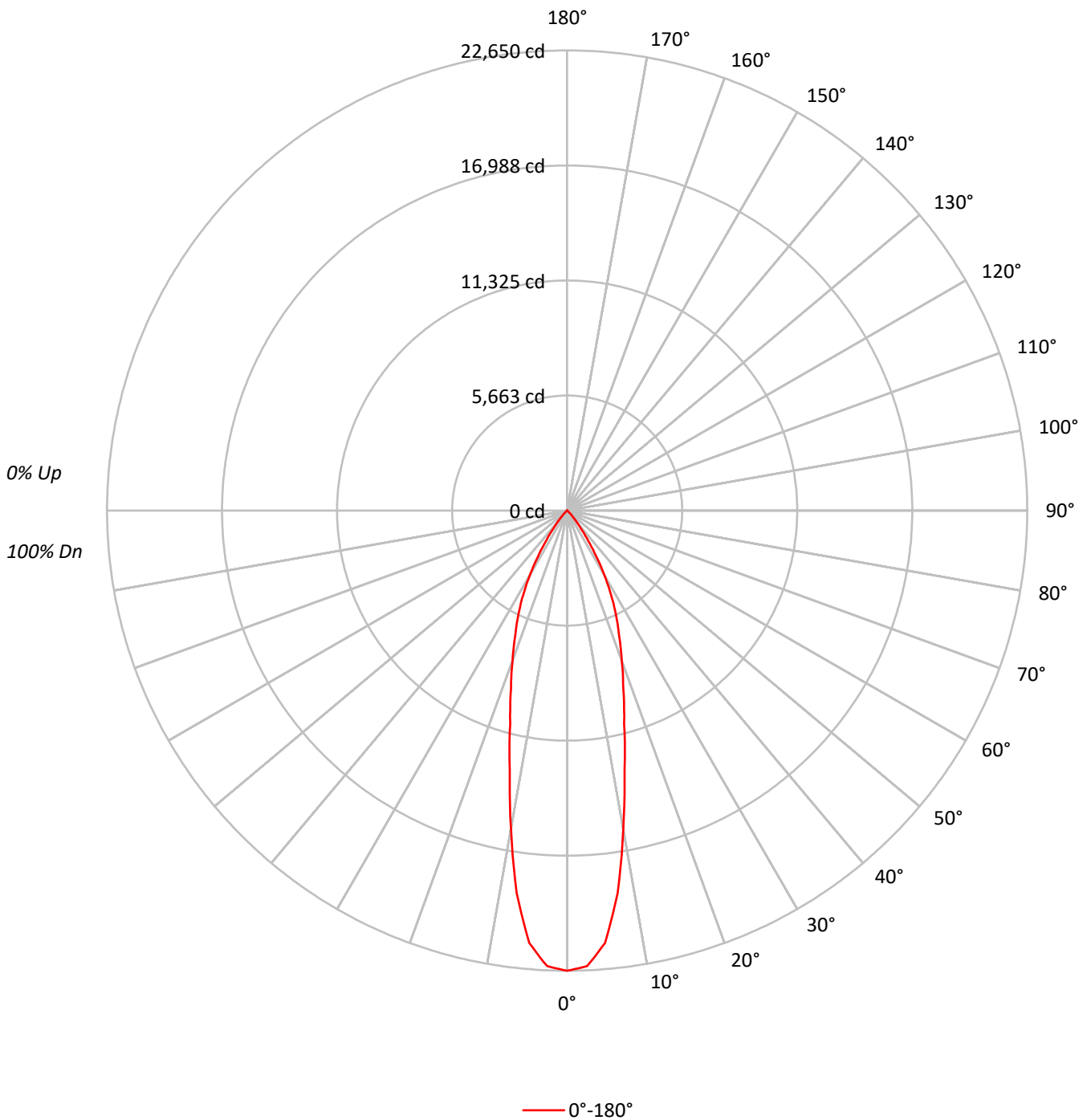
Input Watts (W): 86.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	698446
5°	661285
10°	498027
15°	346166
20°	258050
25°	194233
30°	129879
35°	67982
40°	26258
45°	9712
50°	2471
55°	484
60°	68
65°	248
70°	307
75°	0
80°	0
85°	389



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1857.6	20.8
10°-20°	3072.1	34.5
20°-30°	2589.9	29.0
30°-40°	1175.2	13.2
40°-50°	205.2	2.3
50°-60°	11.2	0.1
60°-70°	1.7	0.0
70°-80°	1.9	0.0
80°-90°	1.2	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°	7519.7	84.3
0°-40°	8694.9	97.5
0°-60°	8911.2	99.9
0°-90°	8916.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8916.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	22650	
5°	21363	###
15°	10843	3072
25°	5709	2590
35°	1806	1175
45°	223	205
55°	9	11
65°	3	2
75°	0	2
85°	1	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	22650.1
2.5°	22449.8
5°	21363.4
7.5°	18996.9
10°	15905.3
12.5°	13047.6
15°	10843.4
17.5°	9187.4
20°	7863.7
22.5°	6698.9
25°	5708.7
27.5°	4701.7
30°	3647.6
32.5°	2655.2
35°	1805.9
37.5°	1108.8
40°	652.3
42.5°	382.7
45°	222.7
47.5°	133.2
50°	51.5
52.5°	7.8
55°	9.0
57.5°	7.8
60°	1.1
62.5°	1.1
65°	3.4
67.5°	0.0
70°	3.4
72.5°	5.6
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.0
85°	1.1
87.5°	3.4
90°	0.0

(END OF REPORT)