

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: P250457

Luminaire Tested: **LSR8B90D010 EC8B90827 8LBM0GPH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P250457
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P14005)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B90D010 EC8B90827 8LBM0GPH
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 2700 CCT WITH GRAPHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7739.1 lumens
Efficiency: N/A
Efficacy: 89.9 lumens/watt
Spacing Criteria (0/90/45): 0.82 / 0.82 / 0.87
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

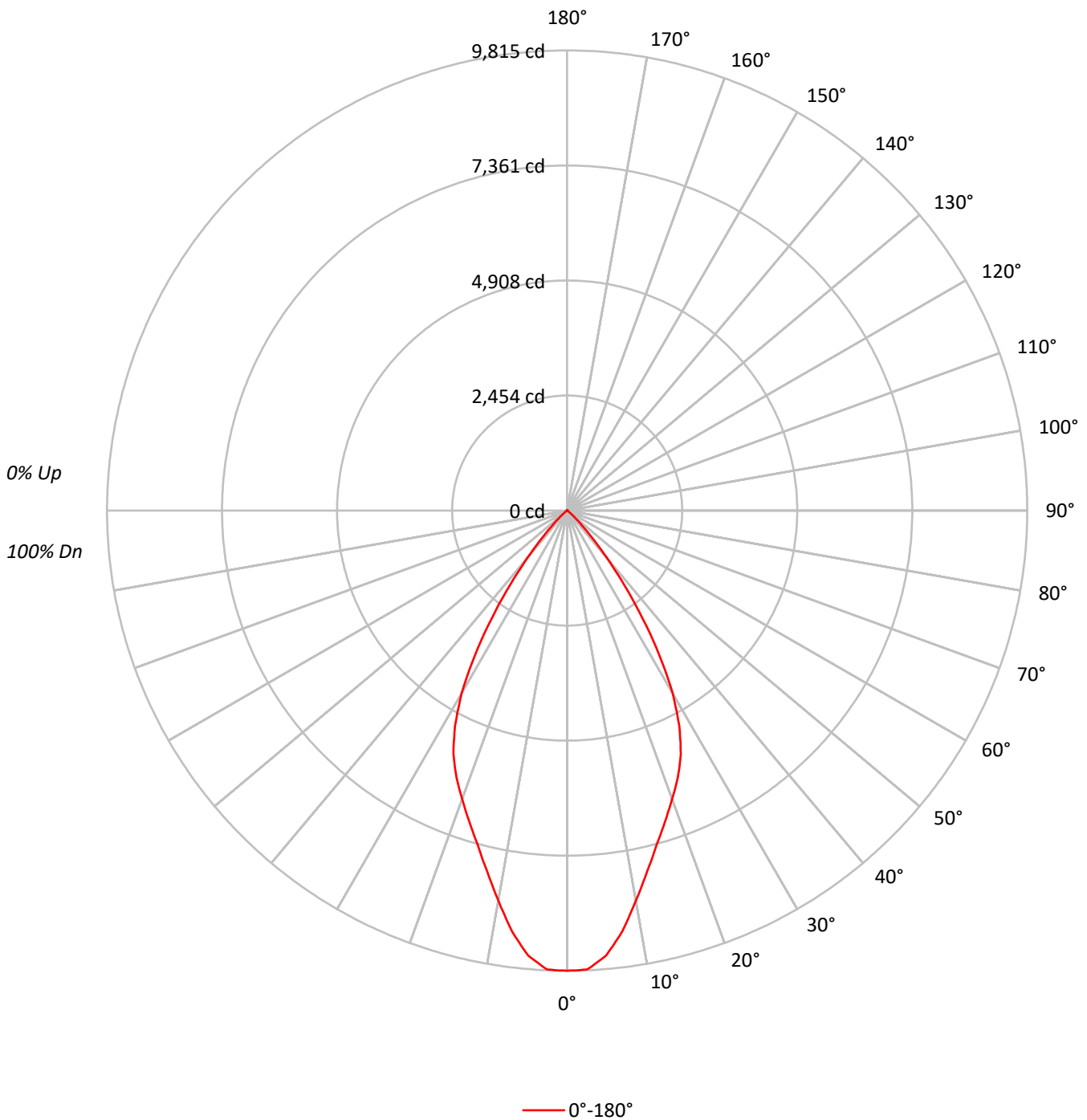
Input Watts (W): 86.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	108	106	111	109	107	105	105	103	101		101	100	98		98	96	95	94
2	108	103	99	96	106	102	98	95	98	95	93		95	93	91		93	91	89	87
3	103	96	92	88	101	95	91	87	92	89	86		90	87	84		88	85	83	81
4	98	90	85	81	96	89	84	80	87	83	79		85	81	78		83	80	77	76
5	93	85	79	75	91	84	78	74	82	77	74		80	76	73		79	75	72	71
6	88	79	73	69	87	79	73	69	77	72	69		76	71	68		74	71	68	66
7	84	75	69	65	82	74	68	64	73	68	64		72	67	64		70	66	63	62
8	80	70	64	60	79	70	64	60	69	64	60		68	63	60		67	63	59	58
9	76	66	61	57	75	66	60	57	65	60	56		64	59	56		63	59	56	55
10	72	63	57	53	71	62	57	53	62	57	53		61	56	53		60	56	53	51

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	302662
5°	295008
10°	264461
15°	235539
20°	214871
25°	195224
30°	160081
35°	105351
40°	52556
45°	19559
50°	5939
55°	720
60°	413
65°	0
70°	307
75°	1203
80°	0
85°	1203



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	873.8	11.3
10°-20°	2077.6	26.8
20°-30°	2588.4	33.4
30°-40°	1745.9	22.6
40°-50°	412.8	5.3
50°-60°	30.2	0.4
60°-70°	5.4	0.1
70°-80°	4.0	0.1
80°-90°	0.9	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°	5539.8	71.6
0°-40°	7285.7	94.1
0°-60°	7728.7	99.9
0°-90°	7739.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7739.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	9815	
5°	9530	874
15°	7378	2078
25°	5738	2588
35°	2799	1746
45°	448	413
55°	13	30
65°	0	5
75°	10	4
85°	3	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	9815.1
2.5°	9798.4
5°	9530.5
7.5°	9045.1
10°	8446.0
12.5°	7880.2
15°	7378.1
17.5°	6946.2
20°	6547.9
22.5°	6166.2
25°	5737.8
27.5°	5178.7
30°	4495.8
32.5°	3669.0
35°	2798.6
37.5°	2001.9
40°	1305.6
42.5°	780.0
45°	448.5
47.5°	251.1
50°	123.8
52.5°	56.9
55°	13.4
57.5°	3.4
60°	6.7
62.5°	10.1
65°	0.0
67.5°	6.7
70°	3.4
72.5°	3.4
75°	10.1
77.5°	0.0
80°	0.0
82.5°	0.0
85°	3.4
87.5°	0.0
90°	0.0

(END OF REPORT)