

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: P247711

Luminaire Tested: **LSR8B90D010 EC8B90927 8LBW0MW**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247711
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-63)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B90D010 EC8B90927 8LBW0MW
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
97 CRI 2700 CCT WITH MATTE WHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7636.5 lumens
Efficiency: N/A
Efficacy: 88.7 lumens/watt
Spacing Criteria (0/90/45): 1.12 / 1.09 / 1.05
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

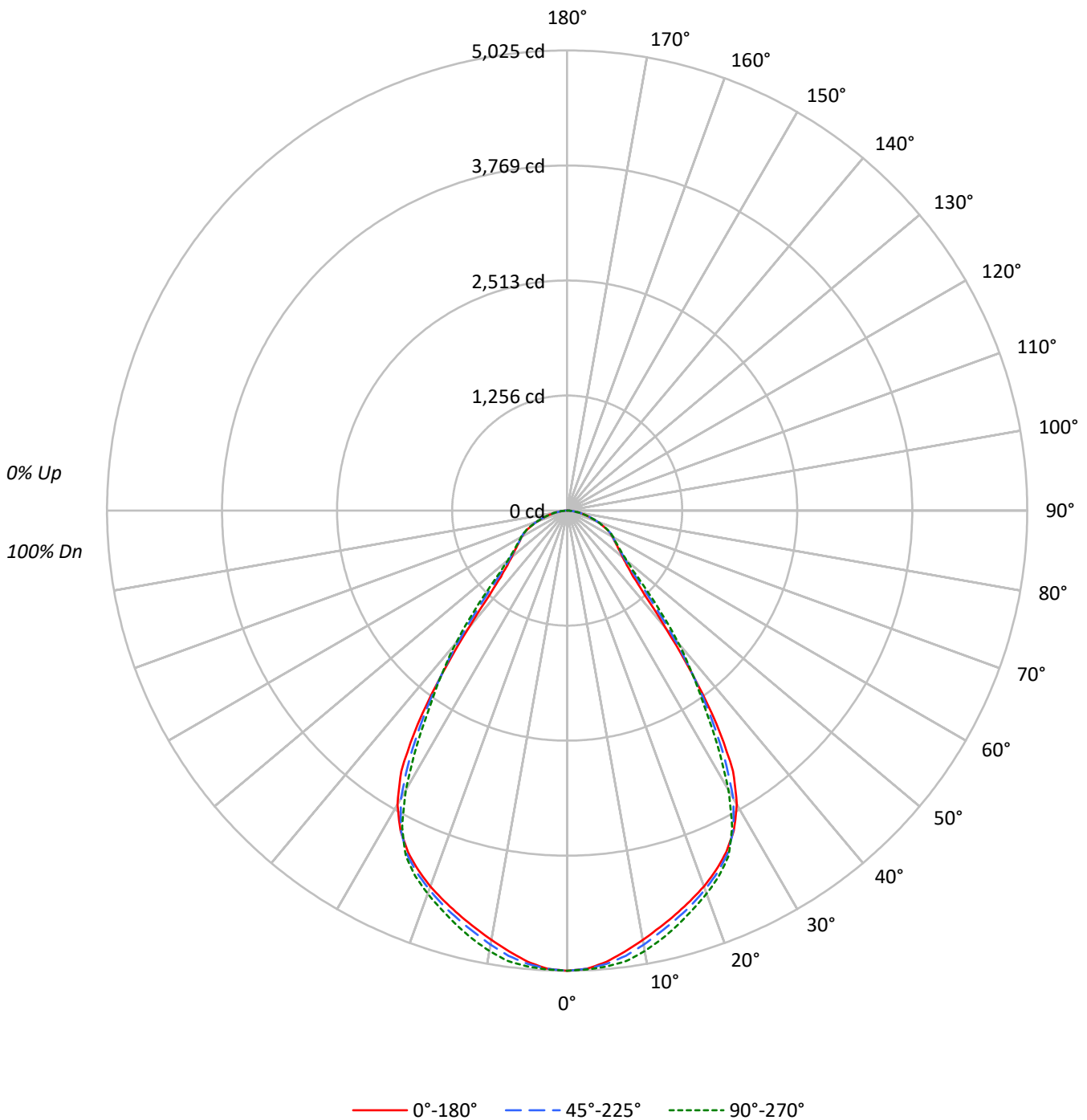
Input Watts (W): 86.1
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	111	107	104	101	109	105	102	99	101	99	96	97	95	93	94	92	91	89
2	103	97	91	87	101	95	90	86	92	88	84	89	85	82	86	83	80	78
3	96	88	81	76	94	86	80	75	84	78	74	81	77	73	79	75	72	70
4	90	80	73	67	88	79	72	67	76	71	66	74	69	65	72	68	64	63
5	84	73	66	60	82	72	65	60	70	64	59	68	63	59	67	62	58	57
6	79	67	60	55	77	67	60	54	65	59	54	63	58	54	62	57	53	51
7	74	62	55	50	72	62	55	50	60	54	49	59	53	49	58	53	49	47
8	69	58	51	46	68	57	50	45	56	50	45	55	49	45	54	49	45	43
9	66	54	47	42	64	53	47	42	52	46	42	51	46	42	50	45	41	40
10	62	50	43	39	61	50	43	39	49	43	39	48	42	38	47	42	38	37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	Luminaire represents a point source (luminous area is zero).		
5°	No luminance values can be calculated.		
10°			
15°			
20°			
25°			
30°			
35°			
40°			
45°			
50°			
55°			
60°			
65°			
70°			
75°			
80°			
85°			



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	469.6	6.1
10°-20°	1302.9	17.1
20°-30°	1883.5	24.7
30°-40°	1685.6	22.1
40°-50°	912.2	11.9
50°-60°	608.0	8.0
60°-70°	465.6	6.1
70°-80°	246.8	3.2
80°-90°	62.4	0.8
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°	3655.9	47.9
0°-40°	5341.5	69.9
0°-60°	6861.7	89.9
0°-90°	7636.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7636.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5025	5025	5025	5025	5025	
5°	4945	4948	4969	4988	4997	466
15°	4568	4576	4616	4661	4682	1289
25°	4113	4123	4139	4158	4166	1882
35°	2845	2816	2717	2639	2613	1722
45°	1023	1053	1120	1189	1215	842
55°	662	664	670	678	680	599
65°	471	473	476	480	480	462
75°	228	228	231	232	232	245
85°	53	53	53	54	53	63
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5025.4	5025.4	5025.4	5025.4	5025.4
2.5°	5008.6	5006.8	5007.7	5013.0	5015.7
5°	4945.0	4947.8	4968.9	4988.2	4997.1
7.5°	4856.0	4867.4	4903.7	4941.6	4960.9
10°	4760.7	4772.1	4813.7	4867.4	4884.2
12.5°	4662.8	4676.8	4713.9	4768.7	4788.9
15°	4567.5	4576.3	4616.0	4661.0	4682.1
17.5°	4469.5	4478.4	4514.5	4549.8	4566.6
20°	4367.1	4376.9	4404.3	4434.2	4452.8
22.5°	4249.8	4259.6	4282.5	4309.0	4325.7
25°	4113.1	4122.8	4138.7	4158.1	4166.0
27.5°	3940.2	3946.4	3931.3	3915.4	3901.4
30°	3705.5	3686.1	3626.1	3549.4	3519.3
32.5°	3372.0	3309.4	3193.8	3100.3	3065.8
35°	2845.2	2816.2	2717.3	2638.8	2613.3
37.5°	2231.2	2250.7	2243.6	2238.3	2243.6
40°	1664.0	1709.0	1806.0	1872.1	1893.4
42.5°	1259.9	1303.1	1412.6	1504.2	1536.0
45°	1023.4	1053.4	1119.6	1189.2	1214.9
47.5°	883.1	899.9	933.4	970.5	982.8
50°	793.1	800.2	817.0	838.1	845.2
52.5°	721.7	725.2	735.0	746.4	748.1
55°	661.7	664.3	670.5	677.6	680.2
57.5°	611.4	614.0	615.8	620.2	622.0
60°	571.7	571.7	575.2	578.8	580.5
62.5°	528.5	528.5	532.0	535.5	535.5
65°	471.2	472.8	476.4	479.9	479.9
67.5°	408.5	409.4	412.0	415.6	414.7
70°	345.8	345.8	348.5	350.2	351.1
72.5°	285.9	285.0	289.3	290.2	287.7
75°	228.5	228.5	231.2	232.1	232.1
77.5°	178.2	177.3	177.3	178.2	179.1
80°	130.6	131.5	130.6	132.3	134.1
82.5°	90.9	90.0	90.0	90.0	89.1
85°	53.0	53.0	53.0	53.8	53.0
87.5°	21.2	21.2	20.2	20.2	19.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)