

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: P247235

Luminaire Tested: **LSR8B90D010 EC8B90930 8LBS0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247235
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-83)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B90D010 EC8B90930 8LBS0H
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
97 CRI 3000 CCT WITH SEMI-SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8517.3 lumens
Efficiency: N/A
Efficacy: 98.9 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.22 / 1.23
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

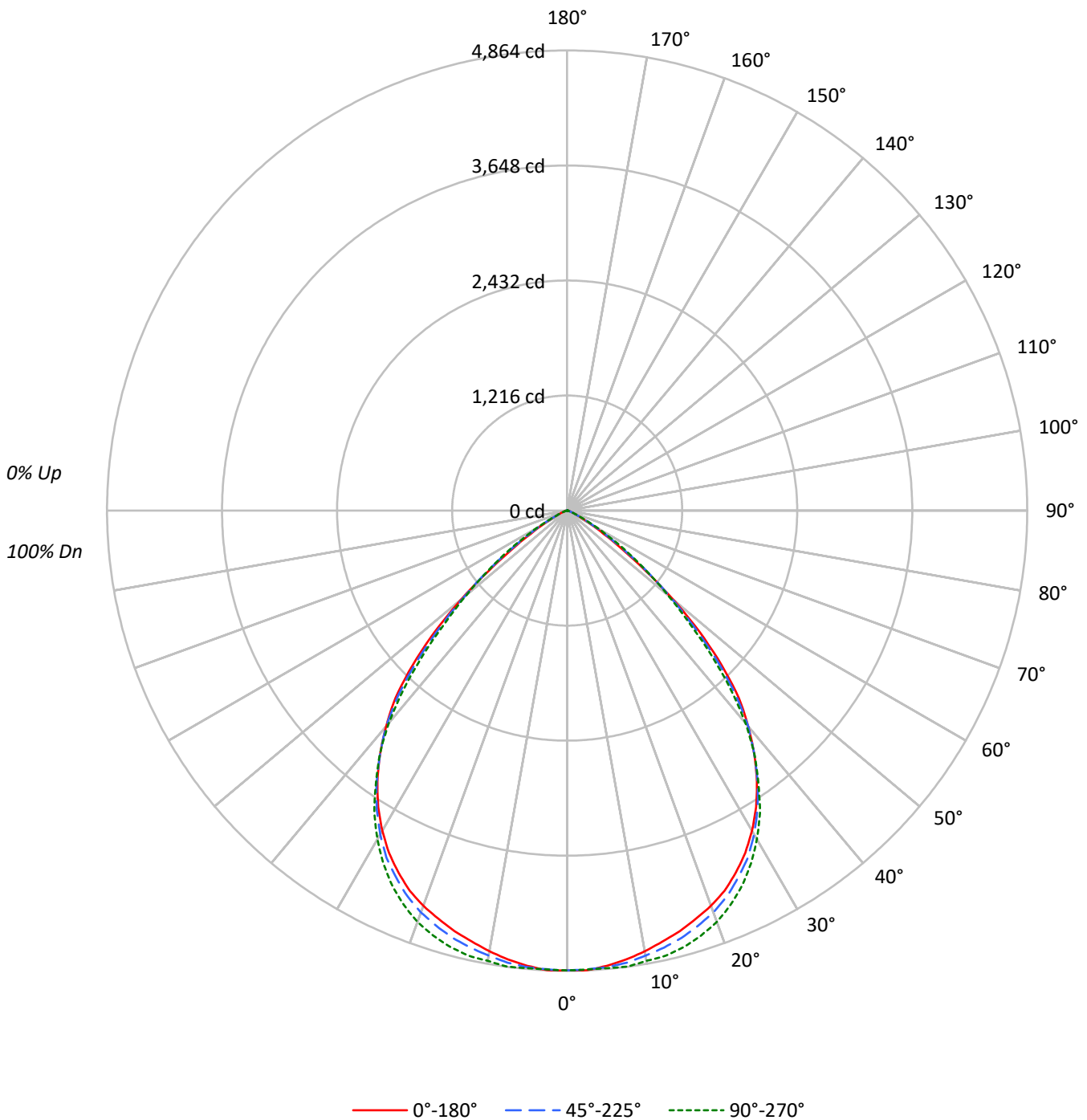
Input Watts (W): 86.1
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	112	109	106	103	110	107	104	102	103	100	98	99	97	95	95	94	93	91						
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	85	83	81						
3	98	90	84	79	96	88	83	78	86	81	77	83	79	76	81	77	74	73						
4	91	82	75	70	89	81	74	69	78	73	68	76	71	68	74	70	67	65						
5	85	75	68	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58						
6	79	69	61	56	78	68	61	56	66	60	55	64	59	55	63	58	54	53						
7	74	63	56	50	73	62	55	50	61	55	50	60	54	50	58	53	49	48						
8	70	58	51	46	68	57	51	46	56	50	45	55	49	45	54	49	45	43						
9	65	54	47	42	64	53	46	42	52	46	42	51	46	41	50	45	41	40						
10	62	50	43	38	60	50	43	38	49	42	38	48	42	38	47	42	38	36						

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°	460.5	5.4
10°-20°	1320.5	15.5
20°-30°	1970.3	23.1
30°-40°	2182.1	25.6
40°-50°	1701.7	20.0
50°-60°	713.3	8.4
60°-70°	142.9	1.7
70°-80°	22.7	0.3
80°-90°	3.5	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°	3751.2	44.0
0°-40°	5933.3	69.7
0°-60°	8348.2	98.0
0°-90°	8517.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8517.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4861	4861	4861	4861	4861	
5°	4830	4834	4844	4857	4854	458
15°	4602	4623	4675	4744	4775	1298
25°	4221	4238	4279	4345	4374	1940
35°	3496	3491	3512	3529	3525	2173
45°	2311	2301	2242	2173	2145	1749
55°	697	724	770	801	816	679
65°	109	109	110	118	114	131
75°	32	29	29	22	20	26
85°	1	2	1	0	5	3
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4860.7	4860.7	4860.7	4860.7	4860.7
2.5°	4864.4	4855.1	4853.3	4858.9	4855.1
5°	4829.9	4833.8	4844.0	4857.0	4854.2
7.5°	4785.3	4791.8	4819.7	4853.3	4861.6
10°	4729.5	4743.5	4776.9	4815.1	4832.7
12.5°	4664.5	4683.0	4731.4	4786.2	4818.8
15°	4602.2	4622.6	4674.7	4743.5	4775.1
17.5°	4524.0	4550.9	4602.2	4676.5	4709.1
20°	4445.9	4470.0	4519.3	4591.8	4628.2
22.5°	4349.1	4366.7	4413.3	4474.7	4511.9
25°	4220.8	4237.5	4279.4	4345.4	4374.3
27.5°	4077.5	4097.0	4135.3	4180.8	4206.8
30°	3908.3	3924.1	3951.1	3992.0	4011.5
32.5°	3717.6	3718.5	3745.5	3776.2	3793.9
35°	3496.2	3490.7	3512.1	3528.8	3525.1
37.5°	3251.6	3252.6	3250.7	3252.6	3256.3
40°	2978.2	2965.2	2975.4	2952.2	2935.3
42.5°	2687.9	2674.9	2634.9	2583.8	2555.9
45°	2311.3	2301.1	2241.6	2172.7	2144.8
47.5°	1897.4	1865.8	1817.4	1758.8	1731.8
50°	1459.3	1455.6	1426.8	1412.8	1388.6
52.5°	1043.5	1043.5	1079.0	1073.4	1072.3
55°	696.6	723.6	770.1	800.8	815.6
57.5°	453.9	479.0	518.0	550.6	565.5
60°	293.9	306.0	333.9	359.1	376.7
62.5°	182.3	192.5	207.4	223.2	229.7
65°	108.8	108.8	109.7	118.2	114.5
67.5°	73.4	76.2	72.5	72.5	81.8
70°	47.4	44.6	43.7	42.8	42.8
72.5°	30.7	26.0	27.9	29.8	26.0
75°	31.6	28.8	28.8	22.3	20.5
77.5°	11.2	12.1	8.4	6.5	5.6
80°	0.9	3.7	3.7	0.9	0.0
82.5°	11.2	10.2	8.4	13.0	8.4
85°	0.9	1.9	0.9	0.0	4.6
87.5°	0.0	0.0	0.0	0.9	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)