

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: P247571

Luminaire Tested: **LSR8B90D010 EC8B909730 8LBS0GPH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247571
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-86)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B90D010 EC8B909730 8LBS0GPH
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
97 CRI 3000 CCT WITH GRAPHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6935.0 lumens
Efficiency: N/A
Efficacy: 80.5 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.19 / 1.23
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

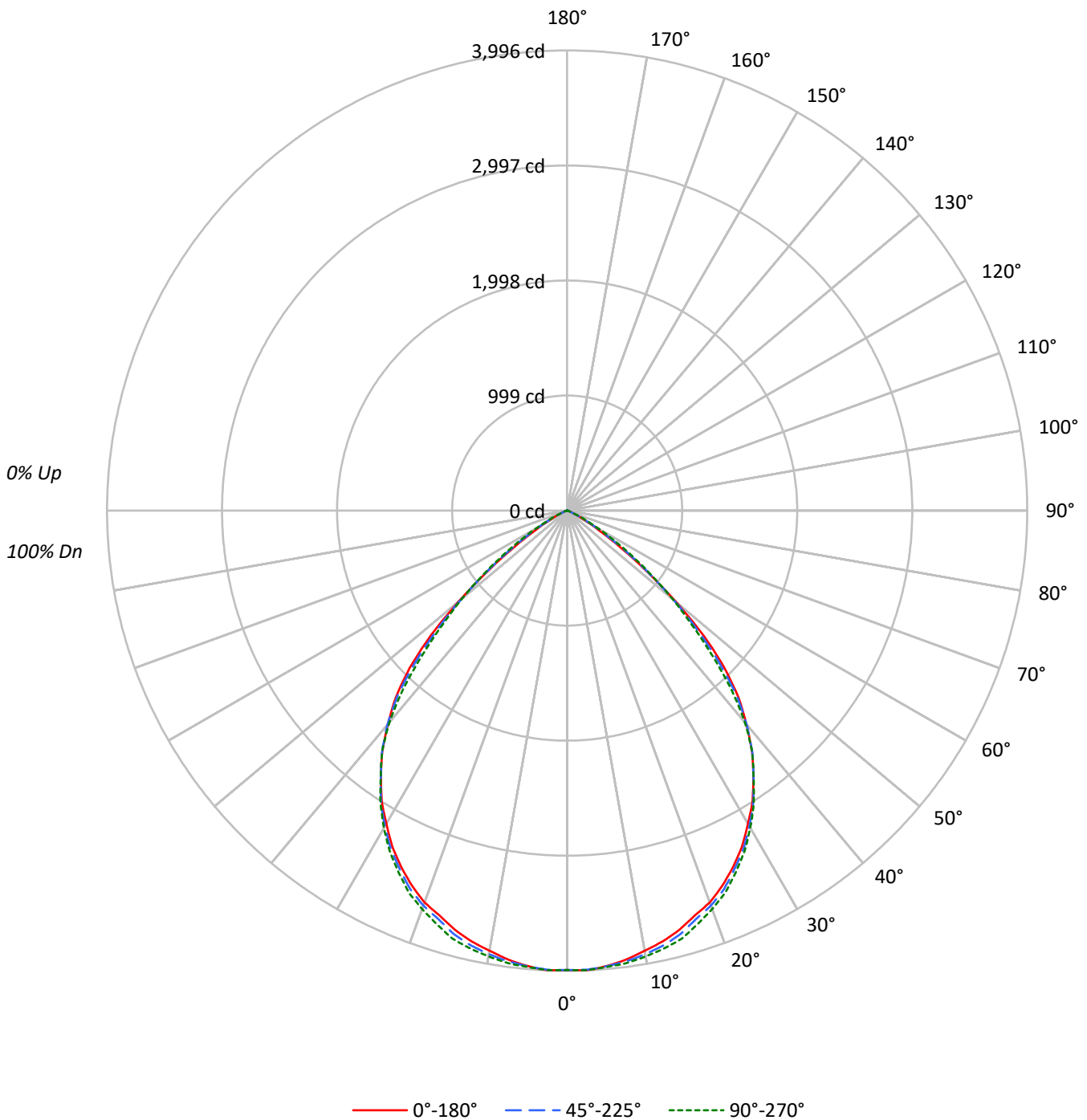
Input Watts (W): 86.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	67	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58						
6	79	68	61	56	78	68	61	56	66	60	55	64	59	55	63	58	54	53						
7	74	63	55	50	73	62	55	50	61	54	50	59	54	50	58	53	49	48						
8	70	58	51	46	68	57	50	46	56	50	45	55	49	45	54	49	45	43						
9	65	54	47	42	64	53	46	42	52	46	41	51	45	41	50	45	41	39						
10	62	50	43	38	60	49	43	38	48	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°	377.4	5.4
10°-20°	1071.7	15.5
20°-30°	1580.5	22.8
30°-40°	1759.2	25.4
40°-50°	1415.8	20.4
50°-60°	602.0	8.7
60°-70°	112.9	1.6
70°-80°	13.7	0.2
80°-90°	1.7	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°	3029.7	43.7
0°-40°	4788.9	69.1
0°-60°	6806.7	98.2
0°-90°	6935.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6935.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3990	3990	3990	3990	3990	
5°	3970	3970	3971	3978	3977	376
15°	3768	3789	3807	3836	3848	1062
25°	3412	3424	3437	3457	3465	1568
35°	2819	2820	2821	2822	2822	1755
45°	1934	1918	1866	1810	1783	1454
55°	597	611	647	673	690	569
65°	75	83	94	100	112	97
75°	8	9	14	13	12	12
85°	0	0	0	0	0	2
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3989.6	3989.6	3989.6	3989.6	3989.6
2.5°	3996.2	3998.7	3990.4	3992.0	3994.5
5°	3969.6	3970.5	3971.3	3977.9	3977.1
7.5°	3932.3	3938.1	3948.1	3960.5	3963.8
10°	3881.7	3896.6	3911.6	3926.5	3931.5
12.5°	3831.9	3841.0	3867.6	3882.5	3895.0
15°	3768.0	3788.8	3807.0	3836.0	3848.5
17.5°	3686.7	3701.6	3719.1	3748.1	3765.5
20°	3621.1	3625.3	3650.2	3675.9	3681.7
22.5°	3524.1	3533.2	3558.9	3576.3	3591.3
25°	3412.0	3424.5	3436.9	3456.8	3465.1
27.5°	3289.2	3296.7	3314.1	3328.2	3335.7
30°	3140.7	3157.3	3164.8	3171.4	3181.4
32.5°	2996.3	3001.3	3007.9	3012.1	3017.1
35°	2818.7	2819.6	2821.2	2822.1	2822.1
37.5°	2637.0	2642.8	2641.2	2636.2	2638.7
40°	2422.1	2432.1	2426.3	2411.3	2401.4
42.5°	2205.5	2200.6	2180.6	2135.8	2115.1
45°	1934.2	1918.4	1866.2	1809.7	1783.2
47.5°	1608.9	1574.1	1530.1	1486.1	1468.7
50°	1233.0	1228.1	1208.2	1190.7	1192.4
52.5°	883.7	896.2	900.3	916.9	925.2
55°	597.4	610.7	647.2	672.9	689.5
57.5°	363.4	389.2	428.2	470.5	492.1
60°	229.8	244.8	280.5	307.8	317.8
62.5°	143.6	144.4	161.8	183.4	192.5
65°	74.7	83.0	93.8	100.4	112.0
67.5°	46.5	46.5	45.6	55.6	62.2
70°	30.7	26.6	27.4	33.2	35.7
72.5°	10.8	18.3	16.6	16.6	11.6
75°	7.5	9.1	14.1	13.3	12.4
77.5°	10.0	9.1	6.6	5.8	11.6
80°	4.1	3.3	0.8	5.0	5.0
82.5°	4.1	1.7	5.0	6.6	4.1
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.8	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)