

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: P247570

Luminaire Tested: **LSR8B80D010 EC8B809730 8LBS0GPH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247570
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: LSR8B80D010 EC8B809730 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: 6157.0 lumens
Efficiency: N/A
Efficacy: 82.8 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

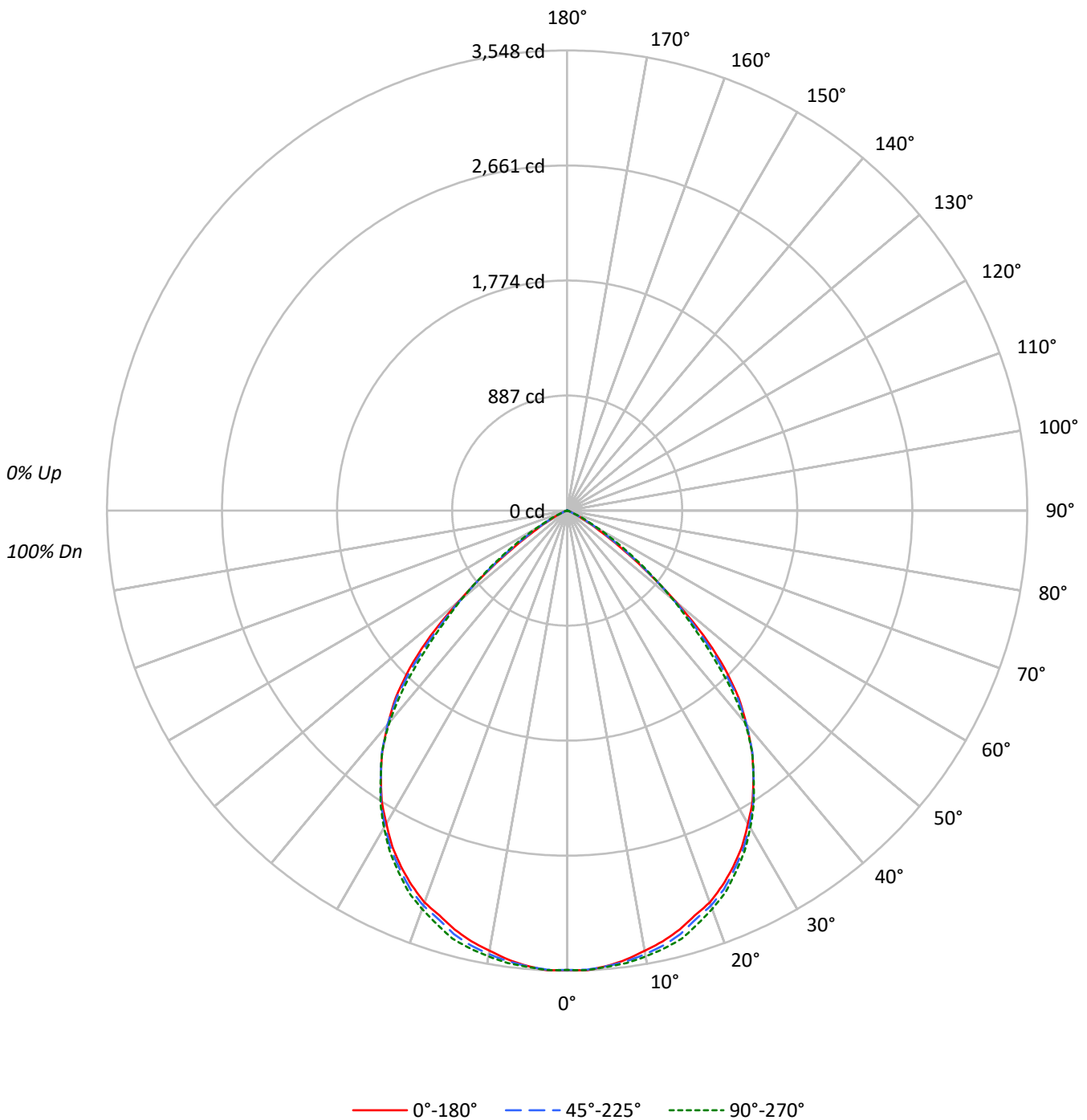
Input Watts (W): 74.4
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	100	100	100	100		
1	112	109	106	103	110	107	104	102	103	100	98	99	97	95	95	94	93	91	91	91	91	91		
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	85	83	81	81	81	81	81		
3	98	90	84	79	96	88	83	78	86	81	77	83	79	76	81	77	74	73	73	73	73	73		
4	91	82	75	70	89	81	74	69	78	73	68	76	71	68	74	70	67	65	65	65	65	65		
5	85	75	67	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58	58	58	58	58		
6	79	68	61	56	78	68	61	56	66	60	55	64	59	55	63	58	54	53	53	53	53	53		
7	74	63	55	50	73	62	55	50	61	54	50	59	54	50	58	53	49	48	48	48	48	48		
8	70	58	51	46	68	57	50	46	56	50	45	55	49	45	54	49	45	43	43	43	43	43		
9	65	54	47	42	64	53	46	42	52	46	41	51	45	41	50	45	41	39	39	39	39	39		
10	62	50	43	38	60	49	43	38	48	42	38	48	42	38	47	42	38	36	36	36	36	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°	335.0	5.4
10°-20°	951.5	15.5
20°-30°	1403.2	22.8
30°-40°	1561.9	25.4
40°-50°	1257.0	20.4
50°-60°	534.5	8.7
60°-70°	100.2	1.6
70°-80°	12.2	0.2
80°-90°	1.5	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°	2689.8	43.7
0°-40°	4251.7	69.1
0°-60°	6043.1	98.2
0°-90°	6157.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6157.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3542	3542	3542	3542	3542	
5°	3524	3525	3526	3532	3531	334
15°	3345	3364	3380	3406	3417	943
25°	3029	3040	3051	3069	3076	1392
35°	2502	2503	2505	2506	2506	1559
45°	1717	1703	1657	1607	1583	1291
55°	530	542	575	598	612	505
65°	66	74	83	89	100	86
75°	7	8	12	12	11	11
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°	3542.0	3542.0	3542.0	3542.0	3542.0
2.5°	3547.9	3550.1	3542.7	3544.2	3546.4
5°	3524.3	3525.0	3525.8	3531.7	3530.9
7.5°	3491.2	3496.3	3505.2	3516.2	3519.2
10°	3446.2	3459.5	3472.7	3486.0	3490.4
12.5°	3402.0	3410.1	3433.7	3447.0	3458.0
15°	3345.3	3363.7	3379.9	3405.7	3416.8
17.5°	3273.1	3286.4	3301.8	3327.6	3343.1
20°	3214.9	3218.6	3240.7	3263.5	3268.7
22.5°	3128.7	3136.8	3159.7	3175.1	3188.4
25°	3029.3	3040.3	3051.4	3069.0	3076.4
27.5°	2920.2	2926.9	2942.3	2954.9	2961.5
30°	2788.4	2803.1	2809.7	2815.6	2824.5
32.5°	2660.2	2664.6	2670.5	2674.2	2678.6
35°	2502.5	2503.3	2504.7	2505.5	2505.5
37.5°	2341.2	2346.3	2344.9	2340.5	2342.7
40°	2150.4	2159.2	2154.1	2140.8	2132.0
42.5°	1958.1	1953.7	1936.0	1896.2	1877.8
45°	1717.2	1703.2	1656.8	1606.7	1583.1
47.5°	1428.4	1397.5	1358.5	1319.4	1303.9
50°	1094.7	1090.3	1072.6	1057.1	1058.6
52.5°	784.6	795.6	799.3	814.0	821.4
55°	530.4	542.2	574.6	597.5	612.2
57.5°	322.7	345.5	380.1	417.7	436.9
60°	204.1	217.3	249.0	273.3	282.2
62.5°	127.4	128.2	143.7	162.8	170.9
65°	66.3	73.7	83.2	89.1	99.5
67.5°	41.3	41.3	40.5	49.4	55.3
70°	27.3	23.6	24.3	29.5	31.7
72.5°	9.6	16.2	14.7	14.7	10.3
75°	6.6	8.1	12.5	11.8	11.1
77.5°	8.8	8.1	5.9	5.2	10.3
80°	3.7	2.9	0.7	4.4	4.4
82.5°	3.7	1.5	4.4	5.9	3.7
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.7	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)