

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: P247234

Luminaire Tested: **LSR8B80D010 EC8B809730 8LBS0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247234
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: LSR8B80D010 EC8B809730 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: 6746.0 lumens
Efficiency: N/A
Efficacy: 90.7 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

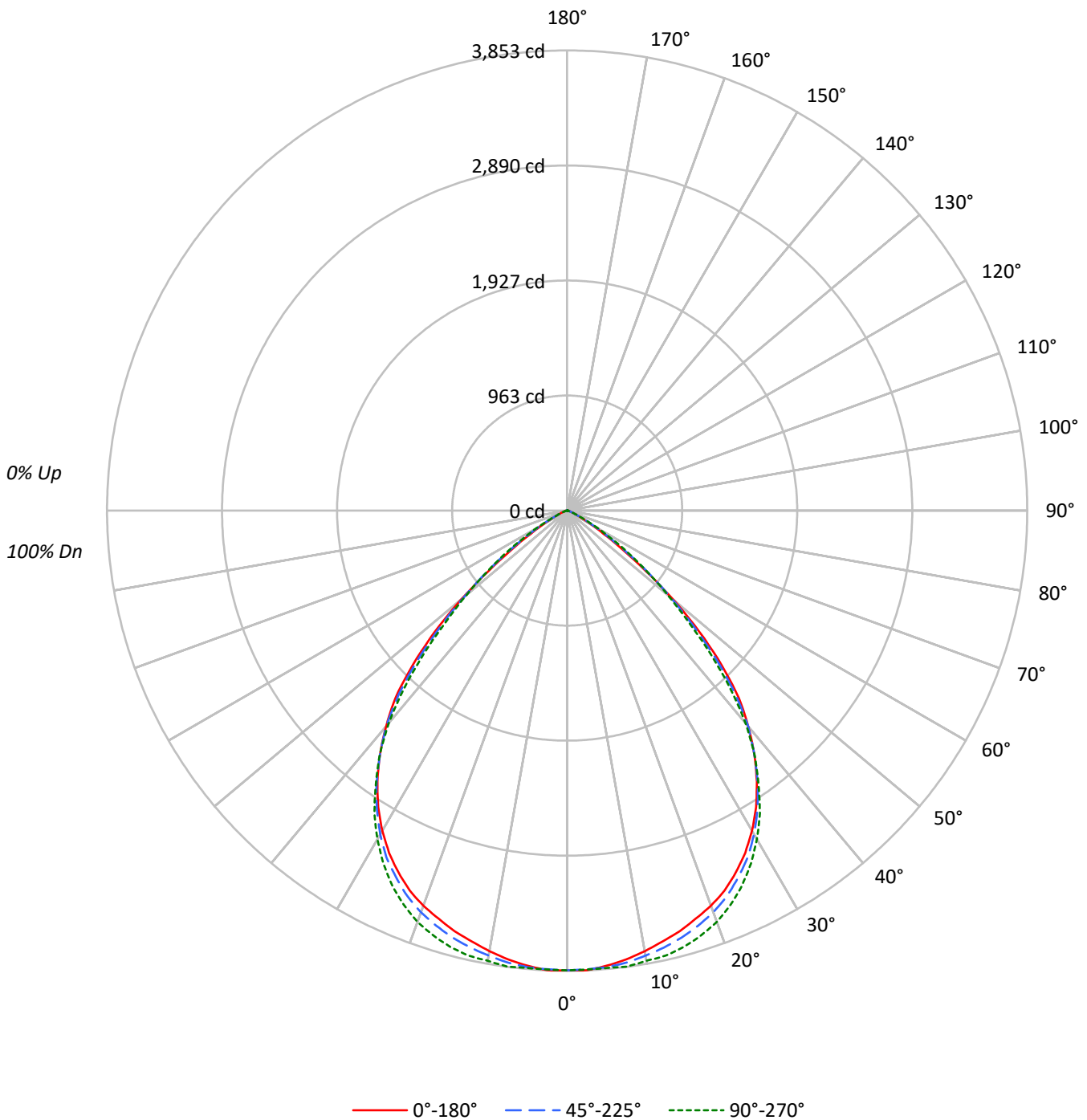
Input Watts (W): 74.4
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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			
1	112	109	106	103	110	107	104	102	103	100	98	99	97	95	95	94	93	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			
3	98	90	84	79	96	88	83	78	86	81	77	83	79	76	81	77	74	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			
5	85	75	68	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58	58	58	58			
6	79	69	61	56	78	68	61	56	66	60	55	64	59	55	63	58	54	53	53	53	53			
7	74	63	56	50	73	62	55	50	61	55	50	60	54	50	58	53	49	48	48	48	48			
8	70	58	51	46	68	57	51	46	56	50	45	55	49	45	54	49	45	43	43	43	43			
9	65	54	47	42	64	53	46	42	52	46	42	51	46	41	50	45	41	40	40	40	40			
10	62	50	43	38	60	50	43	38	49	42	38	48	42	38	47	42	38	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°	364.7	5.4
10°-20°	1045.8	15.5
20°-30°	1560.5	23.1
30°-40°	1728.3	25.6
40°-50°	1347.8	20.0
50°-60°	564.9	8.4
60°-70°	113.2	1.7
70°-80°	18.0	0.3
80°-90°	2.8	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°	2971.0	44.0
0°-40°	4699.3	69.7
0°-60°	6612.0	98.0
0°-90°	6746.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6746.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3850	3850	3850	3850	3850	
5°	3826	3828	3836	3847	3845	363
15°	3645	3661	3702	3757	3782	1028
25°	3343	3356	3389	3442	3464	1536
35°	2769	2765	2782	2795	2792	1721
45°	1831	1822	1775	1721	1699	1385
55°	552	573	610	634	646	538
65°	86	86	87	94	91	104
75°	25	23	23	18	16	20
85°	1	2	1	0	4	3
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3849.8	3849.8	3849.8	3849.8	3849.8
2.5°	3852.7	3845.4	3843.9	3848.3	3845.4
5°	3825.5	3828.4	3836.5	3846.9	3844.6
7.5°	3790.1	3795.3	3817.4	3843.9	3850.5
10°	3745.9	3757.0	3783.5	3813.7	3827.7
12.5°	3694.4	3709.1	3747.4	3790.9	3816.7
15°	3645.0	3661.2	3702.5	3757.0	3782.0
17.5°	3583.1	3604.5	3645.0	3703.9	3729.7
20°	3521.2	3540.4	3579.4	3636.9	3665.6
22.5°	3444.6	3458.6	3495.5	3544.1	3573.6
25°	3343.0	3356.2	3389.4	3441.7	3464.5
27.5°	3229.5	3245.0	3275.2	3311.3	3331.9
30°	3095.5	3108.0	3129.3	3161.8	3177.2
32.5°	2944.4	2945.2	2966.5	2990.9	3004.8
35°	2769.1	2764.7	2781.6	2794.9	2792.0
37.5°	2575.4	2576.1	2574.6	2576.1	2579.1
40°	2358.8	2348.5	2356.6	2338.2	2324.9
42.5°	2129.0	2118.6	2087.0	2046.4	2024.3
45°	1830.6	1822.5	1775.4	1720.8	1698.7
47.5°	1502.8	1477.7	1439.4	1393.0	1371.7
50°	1155.8	1152.9	1130.0	1119.0	1099.8
52.5°	826.5	826.5	854.5	850.1	849.4
55°	551.8	573.1	610.0	634.3	646.1
57.5°	359.5	379.4	410.3	436.1	447.9
60°	232.8	242.4	264.5	284.4	298.3
62.5°	144.4	152.5	164.3	176.8	182.0
65°	86.2	86.2	86.9	93.6	90.6
67.5°	58.2	60.4	57.5	57.5	64.8
70°	37.6	35.4	34.6	33.9	33.9
72.5°	24.3	20.6	22.1	23.6	20.6
75°	25.0	22.8	22.8	17.7	16.2
77.5°	8.8	9.6	6.6	5.2	4.4
80°	0.7	2.9	2.9	0.7	0.0
82.5°	8.8	8.1	6.6	10.3	6.6
85°	0.7	1.5	0.7	0.0	3.7
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)