

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: P247218

Luminaire Tested: **LSR8B80D010 EC8B80935 8LBS0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247218
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 EC8B80935 8LBS0H
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
90 CRI 3500 CCT WITH SEMI-SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7810.0 lumens
Efficiency: N/A
Efficacy: 105.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.22 / 1.23
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

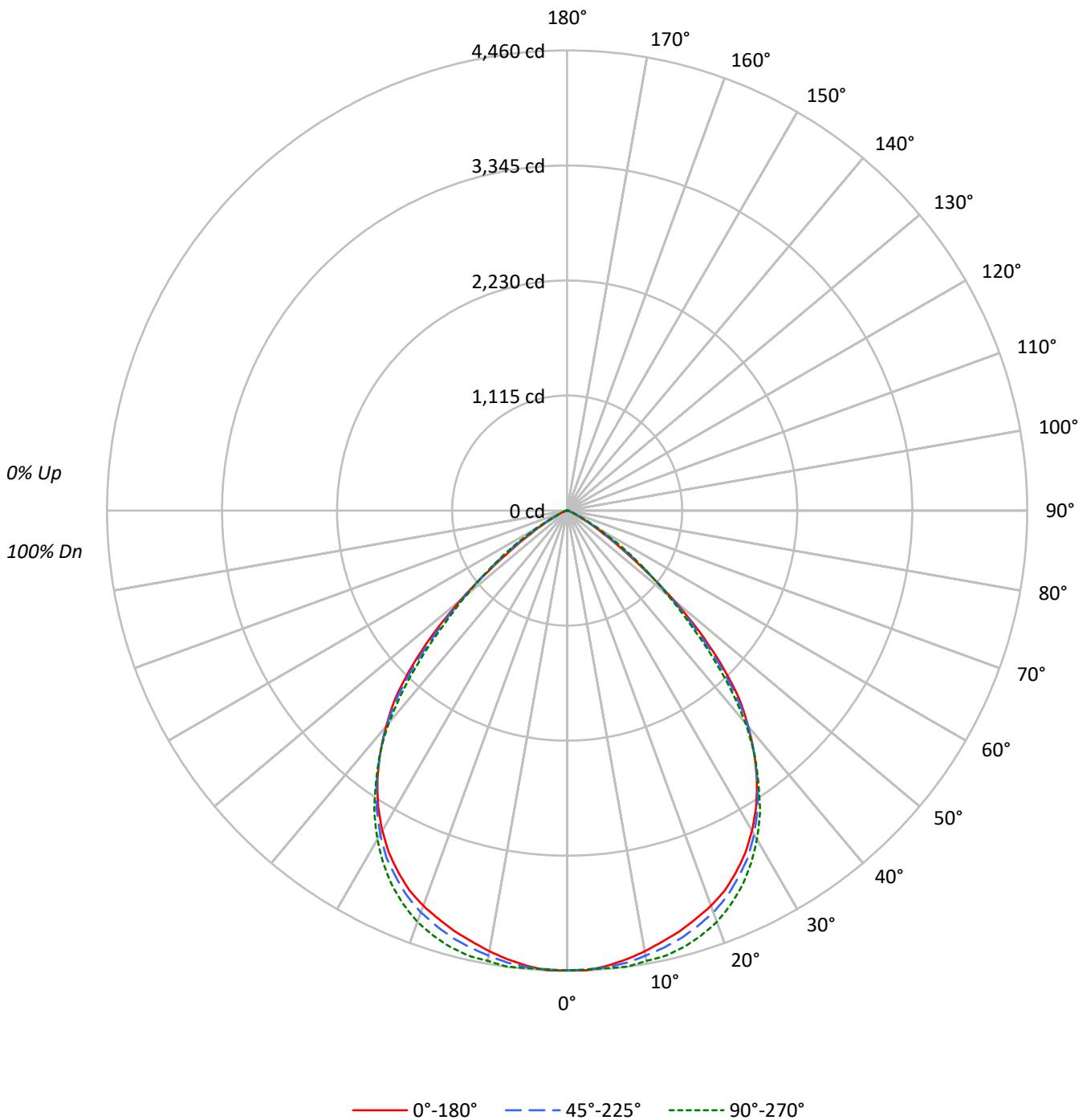
Input Watts (W): 74.4
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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			
1	112	109	106	103	110	107	104	102	103	100	98	99	97	95	95	94	93	91					91			
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	85	83	81					81			
3	98	90	84	79	96	88	83	78	86	81	77	83	79	76	81	77	74	73					73			
4	91	82	75	70	89	81	74	69	78	73	68	76	71	68	74	70	67	65					65			
5	85	75	68	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58					58			
6	79	69	61	56	78	68	61	56	66	60	55	64	59	55	63	58	54	53					53			
7	74	63	56	50	73	62	55	50	61	55	50	60	54	50	58	53	49	48					48			
8	70	58	51	46	68	57	51	46	56	50	45	55	49	45	54	49	45	43					43			
9	65	54	47	42	64	53	46	42	52	46	42	51	46	41	50	45	41	40					40			
10	62	50	43	38	60	50	43	38	49	42	38	48	42	38	47	42	38	36					36			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	137437	137437	137437
5°	137093	137489	137777
10°	135794	137153	138756
15°	134717	136839	139780
20°	133775	135987	139262
25°	131680	133511	136471
30°	127604	129000	130972
35°	120684	121229	121677
40°	109925	109825	108348
45°	92421	89634	85766
50°	64192	62763	61084
55°	34343	37966	40214
60°	16621	18884	21302
65°	7282	7340	7654
70°	3922	3615	3534
75°	3455	3145	2240
80°	160	604	0
85°	318	318	1521



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	422.2	5.4
10°-20°	1210.8	15.5
20°-30°	1806.6	23.1
30°-40°	2000.8	25.6
40°-50°	1560.4	20.0
50°-60°	654.0	8.4
60°-70°	131.0	1.7
70°-80°	20.8	0.3
80°-90°	3.3	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°	3439.6	44.0
0°-40°	5440.5	69.7
0°-60°	7654.9	98.0
0°-90°	7810.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7810.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4457	4457	4457	4457	4457	
5°	4429	4432	4442	4454	4451	420
15°	4220	4239	4286	4350	4378	1191
25°	3870	3886	3924	3984	4011	1778
35°	3206	3201	3220	3236	3232	1993
45°	2119	2110	2055	1992	1967	1603
55°	639	664	706	734	748	622
65°	100	100	101	108	105	120
75°	29	26	26	20	19	24
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°	4457.0	4457.0	4457.0	4457.0	4457.0
2.5°	4460.4	4451.9	4450.2	4455.3	4451.9
5°	4428.9	4432.3	4441.7	4453.6	4451.0
7.5°	4387.9	4393.9	4419.5	4450.2	4457.9
10°	4336.8	4349.5	4380.2	4415.2	4431.4
12.5°	4277.1	4294.1	4338.5	4388.8	4418.6
15°	4219.9	4238.7	4286.4	4349.5	4378.5
17.5°	4148.3	4173.0	4219.9	4288.1	4318.0
20°	4076.6	4098.8	4144.0	4210.5	4243.8
22.5°	3987.9	4004.1	4046.8	4103.1	4137.2
25°	3870.2	3885.6	3924.0	3984.5	4011.0
27.5°	3738.9	3756.8	3791.8	3833.6	3857.4
30°	3583.7	3598.2	3622.9	3660.4	3678.3
32.5°	3408.8	3409.7	3434.4	3462.6	3478.8
35°	3205.9	3200.8	3220.4	3235.7	3232.3
37.5°	2981.6	2982.4	2980.7	2982.4	2985.8
40°	2730.8	2718.9	2728.3	2707.0	2691.6
42.5°	2464.7	2452.8	2416.1	2369.2	2343.6
45°	2119.3	2110.0	2055.4	1992.3	1966.7
47.5°	1739.8	1710.8	1666.5	1612.7	1588.0
50°	1338.1	1334.7	1308.3	1295.5	1273.3
52.5°	956.9	956.9	989.3	984.2	983.3
55°	638.8	663.5	706.2	734.3	748.0
57.5°	416.2	439.2	475.0	504.9	518.5
60°	269.5	280.6	306.2	329.2	345.4
62.5°	167.2	176.5	190.2	204.7	210.7
65°	99.8	99.8	100.6	108.3	104.9
67.5°	67.4	69.9	66.5	66.5	75.1
70°	43.5	40.9	40.1	39.2	39.2
72.5°	28.1	23.9	25.6	27.3	23.9
75°	29.0	26.4	26.4	20.5	18.8
77.5°	10.2	11.1	7.7	6.0	5.1
80°	0.9	3.4	3.4	0.9	0.0
82.5°	10.2	9.4	7.7	11.9	7.7
85°	0.9	1.7	0.9	0.0	4.3
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)