

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: P247370

Luminaire Tested: **LSR8B80D010 EC8B80950 8LBS0WMH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247370
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-84)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B80D010 EC8B80950 8LBS0WMH
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
90 CRI 5000 CCT WITH WARM HAZE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8268.0 lumens
Efficiency: N/A
Efficacy: 111.1 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.2 / 1.23
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

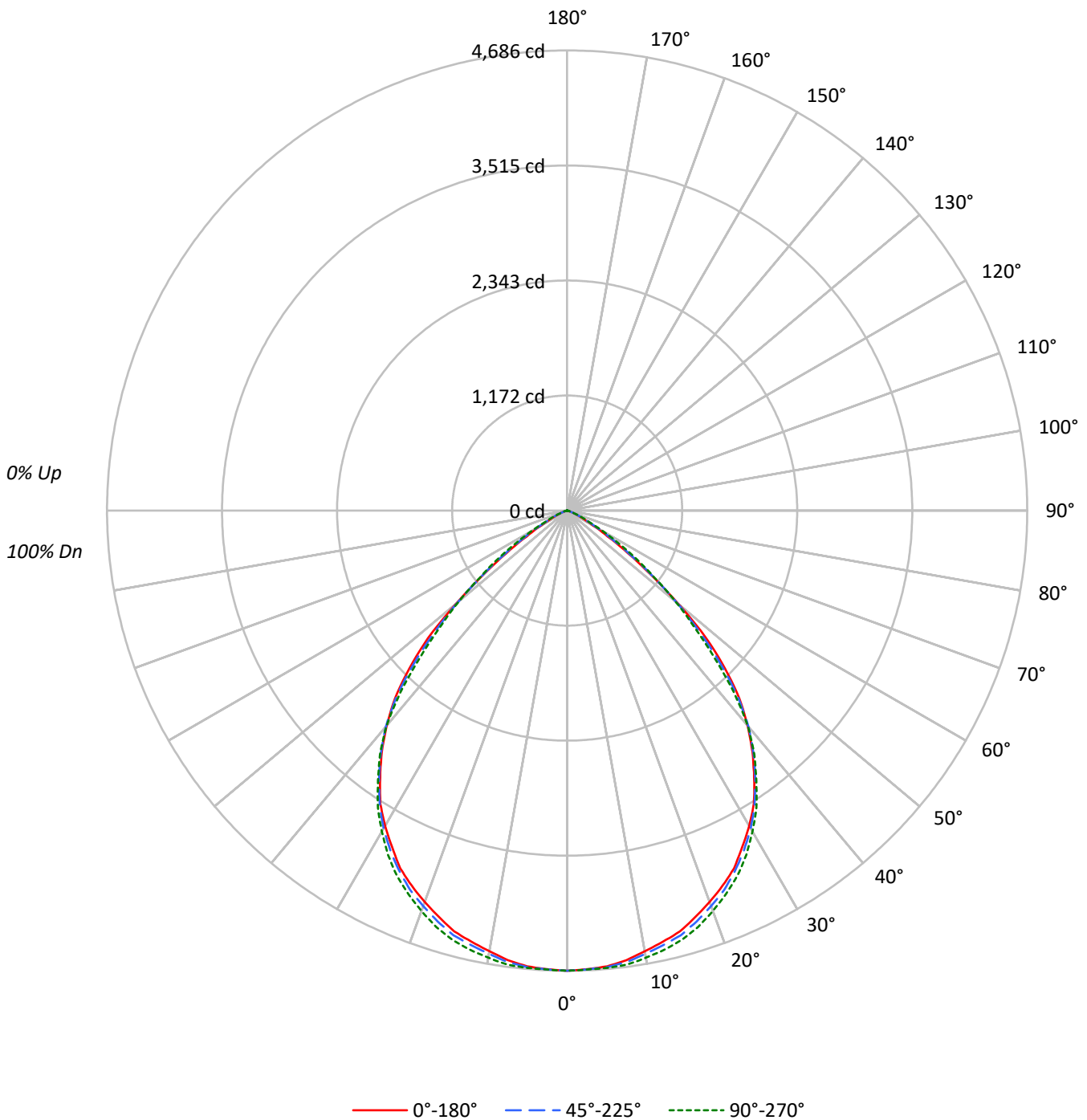
Input Watts (W): 74.4
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	101	102	100	98	99	97	95	95	94	92	91					91			
2	105	99	94	89	102	97	92	88	94	90	86	90	87	85	88	85	83	81					81			
3	98	90	83	78	95	88	82	78	85	80	76	83	79	75	80	77	74	72					72			
4	91	81	75	69	89	80	74	69	78	72	68	76	71	67	74	70	66	64					64			
5	85	74	67	62	83	73	66	61	71	65	61	70	64	60	68	63	60	58					58			
6	79	68	61	55	77	67	60	55	65	59	55	64	58	54	62	58	54	52					52			
7	74	62	55	50	72	62	55	50	60	54	49	59	53	49	58	53	49	47					47			
8	69	58	50	45	68	57	50	45	56	49	45	55	49	45	54	48	44	43					43			
9	65	53	46	41	64	53	46	41	52	45	41	51	45	41	50	45	41	39					39			
10	61	50	43	38	60	49	42	38	48	42	38	47	42	38	46	41	37	36					36			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	144511	144511	144511
5°	144209	144435	144692
10°	142670	143506	144777
15°	141660	142899	144428
20°	139199	140653	142379
25°	136797	137675	139591
30°	132062	133112	134362
35°	124971	125735	126394
40°	115074	115629	115336
45°	99211	96594	92735
50°	70827	69762	68923
55°	40654	43084	46654
60°	19279	22578	26106
65°	9084	10967	12579
70°	4237	4742	5401
75°	1978	2859	3300
80°	1634	1474	2291
85°	637	1628	991



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	442.8	5.4
10°-20°	1260.0	15.2
20°-30°	1861.5	22.5
30°-40°	2080.1	25.2
40°-50°	1679.3	20.3
50°-60°	747.0	9.0
60°-70°	168.3	2.0
70°-80°	26.0	0.3
80°-90°	3.1	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°	3564.3	43.1
0°-40°	5644.4	68.3
0°-60°	8070.7	97.6
0°-90°	8268.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8268.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4686	4686	4686	4686	4686	
5°	4659	4658	4666	4667	4674	441
15°	4437	4440	4476	4509	4524	1248
25°	4021	4021	4046	4080	4103	1843
35°	3320	3318	3340	3344	3358	2069
45°	2275	2258	2215	2137	2126	1720
55°	756	767	801	843	868	711
65°	124	140	150	163	172	145
75°	17	23	24	23	28	21
85°	2	3	5	10	3	2
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4686.4	4686.4	4686.4	4686.4	4686.4
2.5°	4674.4	4671.7	4676.3	4673.5	4678.1
5°	4658.8	4657.8	4666.1	4667.1	4674.4
7.5°	4618.2	4619.1	4636.6	4649.5	4664.3
10°	4556.4	4560.1	4583.1	4611.7	4623.7
12.5°	4497.4	4502.0	4531.5	4571.2	4580.4
15°	4437.4	4440.2	4476.2	4509.4	4524.1
17.5°	4339.7	4358.1	4385.8	4423.6	4443.0
20°	4241.9	4254.9	4286.2	4327.7	4338.8
22.5°	4135.0	4148.8	4180.2	4214.3	4226.3
25°	4020.6	4020.6	4046.4	4079.6	4102.7
27.5°	3861.1	3880.5	3898.9	3928.4	3951.5
30°	3708.9	3716.3	3738.4	3762.4	3773.5
32.5°	3540.2	3541.1	3551.2	3578.0	3588.1
35°	3319.8	3317.9	3340.1	3343.8	3357.6
37.5°	3099.4	3108.6	3116.9	3129.8	3130.7
40°	2858.7	2863.3	2872.5	2858.7	2865.2
42.5°	2596.8	2590.4	2572.8	2531.3	2513.8
45°	2275.0	2257.5	2215.0	2136.6	2126.5
47.5°	1919.9	1876.6	1825.0	1766.9	1755.8
50°	1476.4	1480.1	1454.2	1434.9	1436.7
52.5°	1076.2	1089.1	1095.5	1114.0	1124.1
55°	756.2	767.2	801.4	842.9	867.8
57.5°	489.7	510.9	555.1	602.2	619.7
60°	312.6	326.4	366.1	400.2	423.3
62.5°	204.7	209.3	231.5	262.8	263.7
65°	124.5	140.2	150.3	163.2	172.4
67.5°	81.2	81.2	90.4	102.4	105.1
70°	47.0	48.0	52.6	57.2	59.9
72.5°	25.8	28.6	31.4	36.0	40.6
75°	16.6	23.1	24.0	23.1	27.7
77.5°	11.1	11.1	9.2	15.7	16.6
80°	9.2	6.5	8.3	12.0	12.9
82.5°	0.0	0.9	0.9	1.8	0.0
85°	1.8	2.8	4.6	10.1	2.8
87.5°	0.0	2.8	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)