

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: P247554

Luminaire Tested: **LSR8B80D010 EC8B80935 8LBS0GPH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247554
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 EC8B80935 8LBS0GPH
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
90 CRI 3500 CCT WITH GRAPHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7128.0 lumens
Efficiency: N/A
Efficacy: 95.8 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.19 / 1.23
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

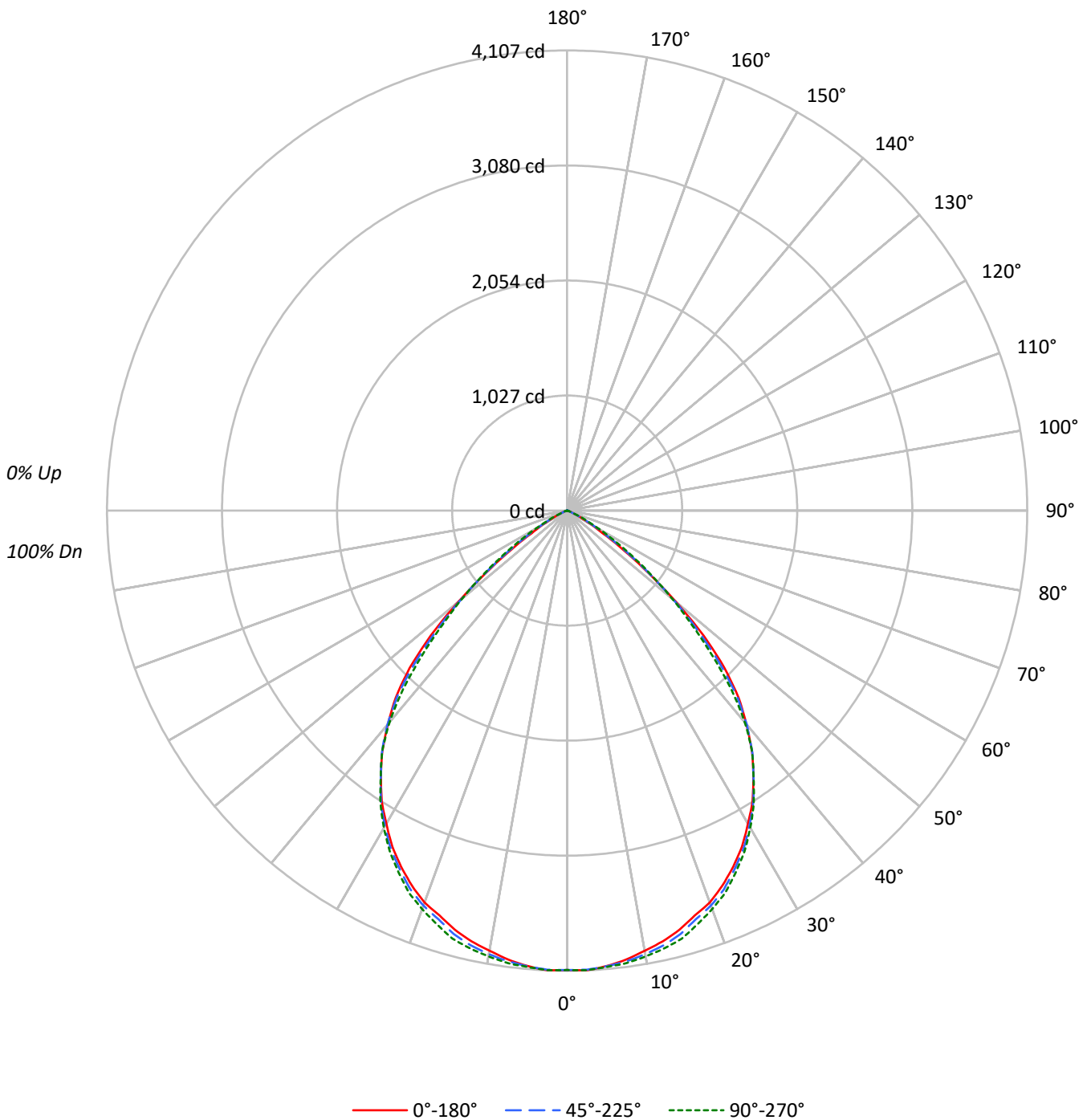
Input Watts (W): 74.4
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	67	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58					58			
6	79	68	61	56	78	68	61	56	66	60	55	64	59	55	63	58	54	53					53			
7	74	63	55	50	73	62	55	50	61	54	50	59	54	50	58	53	49	48					48			
8	70	58	51	46	68	57	50	46	56	50	45	55	49	45	54	49	45	43					43			
9	65	54	47	42	64	53	46	42	52	46	41	51	45	41	50	45	41	39					39			
10	62	50	43	38	60	49	43	38	48	42	38	48	42	38	47	42	38	36					36			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	126447	126447	126447
5°	126296	126348	126534
10°	124926	125887	126529
15°	123639	124919	126279
20°	122135	123117	124180
25°	119323	120194	121180
30°	114942	115822	116430
35°	109063	109157	109191
40°	100212	100385	99355
45°	86695	83647	79927
50°	60801	59573	58795
55°	33015	35762	38101
60°	14567	17780	20142
65°	5604	7034	8398
70°	2849	2533	3309
75°	917	1728	1525
80°	764	160	906
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	387.9	5.4
10°-20°	1101.6	15.5
20°-30°	1624.5	22.8
30°-40°	1808.2	25.4
40°-50°	1455.2	20.4
50°-60°	618.8	8.7
60°-70°	116.0	1.6
70°-80°	14.1	0.2
80°-90°	1.8	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°	3114.0	43.7
0°-40°	4922.2	69.1
0°-60°	6996.2	98.2
0°-90°	7128.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7128.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4101	4101	4101	4101	4101	
5°	4080	4081	4082	4089	4088	387
15°	3873	3894	3913	3943	3956	1091
25°	3507	3520	3533	3553	3562	1612
35°	2897	2898	2900	2901	2901	1804
45°	1988	1972	1918	1860	1833	1495
55°	614	628	665	692	709	585
65°	77	85	96	103	115	99
75°	8	9	14	14	13	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°	4100.6	4100.6	4100.6	4100.6	4100.6
2.5°	4107.4	4110.0	4101.4	4103.1	4105.7
5°	4080.1	4081.0	4081.8	4088.6	4087.8
7.5°	4041.7	4047.7	4057.9	4070.7	4074.1
10°	3989.7	4005.1	4020.4	4035.8	4040.9
12.5°	3938.5	3947.9	3975.2	3990.6	4003.4
15°	3872.9	3894.2	3913.0	3942.8	3955.6
17.5°	3789.3	3804.6	3822.6	3852.4	3870.3
20°	3721.9	3726.2	3751.8	3778.2	3784.2
22.5°	3622.1	3631.5	3657.9	3675.9	3691.2
25°	3507.0	3519.8	3532.6	3553.0	3561.6
27.5°	3380.8	3388.4	3406.4	3420.9	3428.5
30°	3228.1	3245.2	3252.8	3259.7	3269.9
32.5°	3079.7	3084.8	3091.6	3095.9	3101.0
35°	2897.2	2898.0	2899.7	2900.6	2900.6
37.5°	2710.4	2716.4	2714.7	2709.6	2712.1
40°	2489.5	2499.8	2493.8	2478.4	2468.2
42.5°	2266.9	2261.8	2241.3	2195.3	2174.0
45°	1988.0	1971.8	1918.1	1860.1	1832.8
47.5°	1653.7	1617.9	1572.7	1527.5	1509.6
50°	1267.4	1262.2	1241.8	1223.9	1225.6
52.5°	908.3	921.1	925.4	942.4	950.9
55°	614.1	627.7	665.2	691.7	708.7
57.5°	373.6	400.0	440.1	483.6	505.8
60°	236.2	251.6	288.3	316.4	326.6
62.5°	147.5	148.4	166.3	188.5	197.9
65°	76.8	85.3	96.4	103.2	115.1
67.5°	47.8	47.8	46.9	57.1	64.0
70°	31.6	27.3	28.1	34.1	36.7
72.5°	11.1	18.8	17.1	17.1	11.9
75°	7.7	9.4	14.5	13.6	12.8
77.5°	10.2	9.4	6.8	6.0	11.9
80°	4.3	3.4	0.9	5.1	5.1
82.5°	4.3	1.7	5.1	6.8	4.3
85°	0.0	0.0	0.0	0.0	0.0
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)