

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: P247542

Luminaire Tested: **LSR8B80D010 EC8B80850 8LBSOGPH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247542
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 EC8B80850 8LBS0GPH
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 5000 CCT WITH GRAPHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8466.0 lumens
Efficiency: N/A
Efficacy: 113.8 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

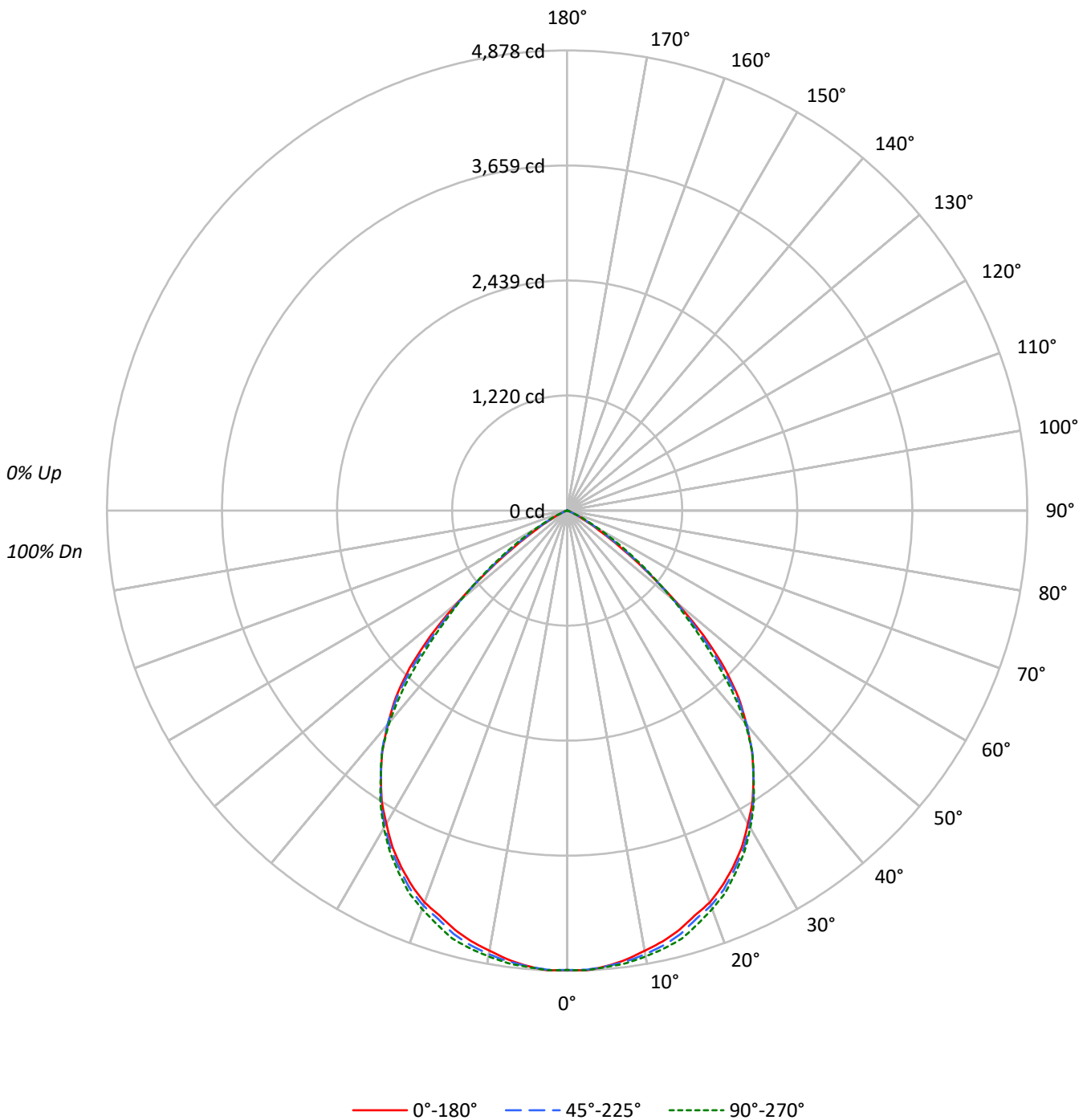
Input Watts (W): 74.4
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	112	109	106	103	110	107	104	102	103	100	98	99	97	95	95	94	93	91
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	85	83	81
3	98	90	84	79	96	88	83	78	86	81	77	83	79	76	81	77	74	73
4	91	82	75	70	89	81	74	69	78	73	68	76	71	68	74	70	67	65
5	85	75	67	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58
6	79	68	61	56	78	68	61	56	66	60	55	64	59	55	63	58	54	53
7	74	63	55	50	73	62	55	50	61	54	50	59	54	50	58	53	49	48
8	70	58	51	46	68	57	50	46	56	50	45	55	49	45	54	49	45	43
9	65	54	47	42	64	53	46	42	52	46	41	51	45	41	50	45	41	39
10	62	50	43	38	60	49	43	38	48	42	38	48	42	38	47	42	38	36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	150182	150182	150182
5°	150004	150065	150285
10°	148375	149518	150279
15°	146844	148367	149983
20°	145063	146225	147488
25°	141721	142755	143925
30°	136520	137563	138286
35°	129534	129650	129688
40°	119023	119228	118004
45°	102970	99346	94928
50°	72213	70755	69829
55°	39208	42477	45256
60°	17305	21117	23929
65°	6654	8354	9974
70°	3381	3011	3931
75°	1084	2049	1811
80°	906	178	1083
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	460.7	5.4
10°-20°	1308.3	15.5
20°-30°	1929.5	22.8
30°-40°	2147.6	25.4
40°-50°	1728.4	20.4
50°-60°	735.0	8.7
60°-70°	137.8	1.6
70°-80°	16.7	0.2
80°-90°	2.1	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°	3698.5	43.7
0°-40°	5846.1	69.1
0°-60°	8309.4	98.2
0°-90°	8466.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8466.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4870	4870	4870	4870	4870	
5°	4846	4847	4848	4856	4855	459
15°	4600	4625	4648	4683	4698	1296
25°	4165	4180	4196	4220	4230	1914
35°	3441	3442	3444	3445	3445	2143
45°	2361	2342	2278	2209	2177	1775
55°	729	746	790	822	842	695
65°	91	101	114	123	137	118
75°	9	11	17	16	15	15
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°	4870.3	4870.3	4870.3	4870.3	4870.3
2.5°	4878.4	4881.5	4871.3	4873.3	4876.4
5°	4846.0	4847.0	4848.0	4856.1	4855.1
7.5°	4800.4	4807.5	4819.7	4834.9	4838.9
10°	4738.6	4756.9	4775.1	4793.3	4799.4
12.5°	4677.8	4689.0	4721.4	4739.6	4754.8
15°	4599.8	4625.2	4647.5	4682.9	4698.1
17.5°	4500.6	4518.8	4540.1	4575.5	4596.8
20°	4420.6	4425.6	4456.0	4487.4	4494.5
22.5°	4302.0	4313.2	4344.6	4365.9	4384.1
25°	4165.3	4180.5	4195.7	4220.0	4230.1
27.5°	4015.4	4024.5	4045.8	4063.0	4072.1
30°	3834.1	3854.3	3863.4	3871.5	3883.7
32.5°	3657.8	3663.9	3672.0	3677.0	3683.1
35°	3441.0	3442.0	3444.1	3445.1	3445.1
37.5°	3219.2	3226.3	3224.2	3218.2	3221.2
40°	2956.8	2969.0	2961.9	2943.7	2931.5
42.5°	2692.4	2686.4	2662.1	2607.4	2582.0
45°	2361.2	2342.0	2278.1	2209.3	2176.8
47.5°	1964.1	1921.6	1867.9	1814.2	1792.9
50°	1505.3	1499.2	1474.9	1453.6	1455.6
52.5°	1078.8	1094.0	1099.1	1119.3	1129.4
55°	729.3	745.5	790.1	821.5	841.8
57.5°	443.7	475.1	522.7	574.3	600.7
60°	280.6	298.8	342.4	375.8	388.0
62.5°	175.2	176.3	197.5	223.9	235.0
65°	91.2	101.3	114.5	122.6	136.7
67.5°	56.7	56.7	55.7	67.9	76.0
70°	37.5	32.4	33.4	40.5	43.6
72.5°	13.2	22.3	20.3	20.3	14.2
75°	9.1	11.1	17.2	16.2	15.2
77.5°	12.2	11.1	8.1	7.1	14.2
80°	5.1	4.1	1.0	6.1	6.1
82.5°	5.1	2.0	6.1	8.1	5.1
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	1.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)