

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: P247254

Luminaire Tested: **LSR8B80D010 EC8B80850 8LBW0WMH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247254
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-59)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B80D010 EC8B80850 8LBW0WMH
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 5000 CCT WITH WARM HAZE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8357.0 lumens
Efficiency: N/A
Efficacy: 112.3 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.14 / 1.06
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

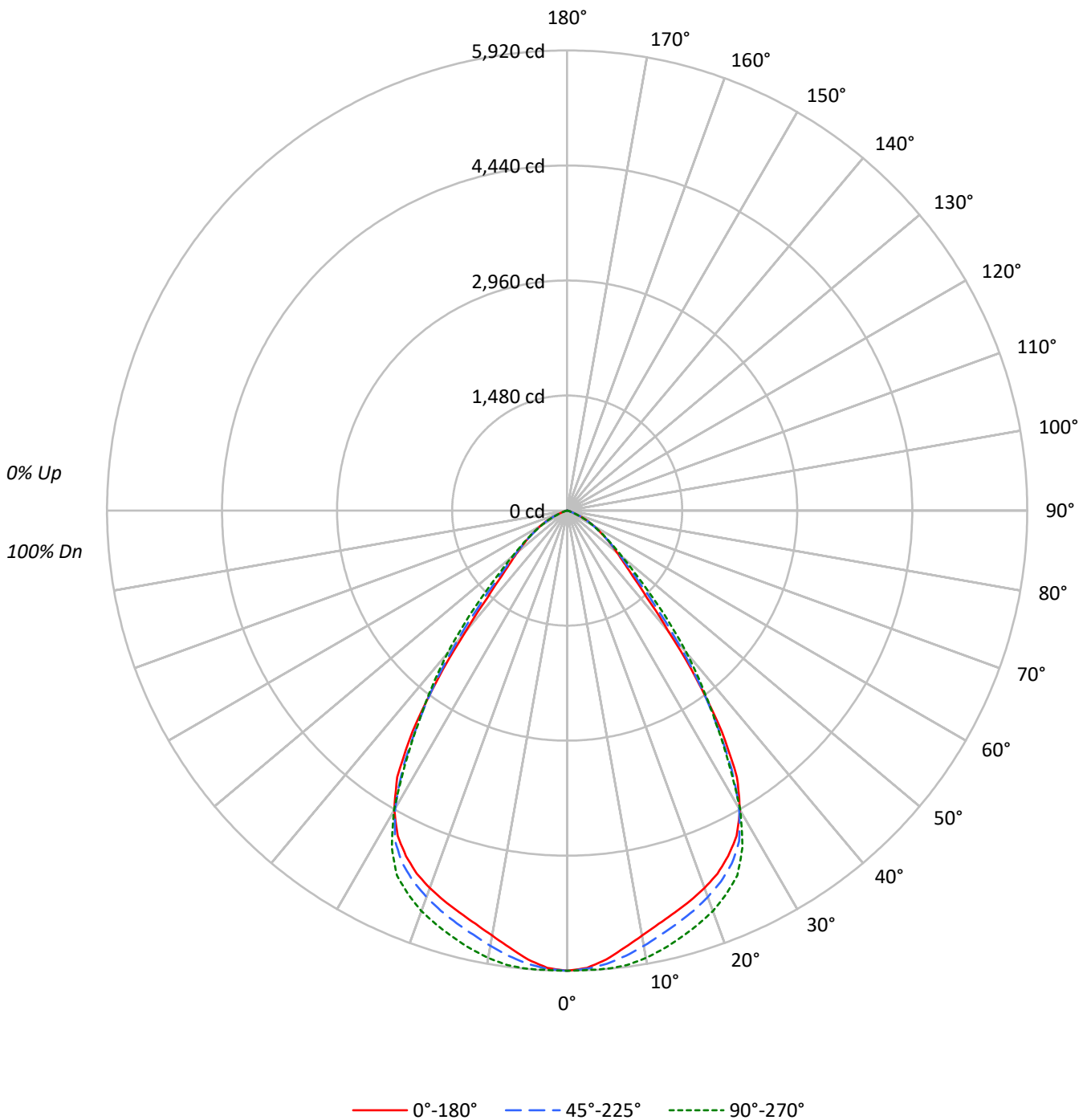
Input Watts (W): 74.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P247254

CATALOG NUMBER: LSR8B80D010 EC8B80850 8LBW0WMH

Luminous Intensity Polar Plot





TEST NUMBER: P247254

CATALOG NUMBER: LSR8B80D010 EC8B80850 8LBW0WMH

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	104	110	107	104	102	103	101	99	99	98	96	96	94	93	91					91			
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	86	84	83					83			
3	99	91	85	81	97	90	84	80	87	83	79	85	81	78	82	79	76	75					75			
4	93	84	77	72	91	83	77	72	80	75	71	78	74	70	76	72	69	68					68			
5	87	77	70	65	85	76	70	65	74	69	64	72	68	64	71	67	63	61					61			
6	82	71	64	59	80	70	64	59	69	63	59	67	62	58	66	61	58	56					56			
7	77	66	59	54	75	65	59	54	64	58	54	63	57	53	61	57	53	51					51			
8	72	61	54	50	71	61	54	49	59	54	49	58	53	49	57	52	49	47					47			
9	68	57	50	46	67	57	50	46	56	50	45	55	49	45	54	49	45	44					44			
10	65	53	47	42	63	53	47	42	52	46	42	51	46	42	50	45	42	40					40			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	182548	182548	182548
5°	179419	181147	183152
10°	173819	178037	182984
15°	170877	175407	181390
20°	169534	173623	179903
25°	166851	170539	176258
30°	158307	157659	158667
35°	130494	125878	125573
40°	81756	89058	96436
45°	51816	57603	64851
50°	39899	41453	44370
55°	31585	31477	32622
60°	24614	24114	23991
65°	16556	15892	15447
70°	7582	6942	6573
75°	3622	3265	3014
80°	1794	1616	1616
85°	1061	1061	708



TEST NUMBER: P247254

CATALOG NUMBER: LSR8B80D010 EC8B80850 8LBW0WMH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	553.6	6.6
10°-20°	1554.6	18.6
20°-30°	2289.5	27.4
30°-40°	2082.4	24.9
40°-50°	1078.0	12.9
50°-60°	540.1	6.5
60°-70°	220.0	2.6
70°-80°	35.1	0.4
80°-90°	3.8	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°	4397.7	52.6
0°-40°	6480.2	77.5
0°-60°	8098.2	96.9
0°-90°	8357.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8357.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5920	5920	5920	5920	5920	
5°	5796	5812	5852	5897	5917	545
15°	5353	5389	5494	5621	5682	1513
25°	4904	4937	5012	5127	5180	2245
35°	3466	3444	3344	3316	3336	2090
45°	1188	1230	1321	1423	1487	979
55°	588	586	586	597	607	534
65°	227	226	218	215	212	229
75°	30	29	27	25	25	38
85°	3	3	3	2	2	4
90°	0	0	0	0	0	



TEST NUMBER: P247254

CATALOG NUMBER: LSR8B80D010 EC8B80850 8LBW0WMH

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5919.9	5919.9	5919.9	5919.9	5919.9
2.5°	5888.5	5891.6	5899.7	5908.8	5915.9
5°	5796.3	5811.5	5852.1	5896.6	5916.9
7.5°	5670.7	5704.2	5778.1	5861.2	5897.6
10°	5551.2	5589.7	5685.9	5797.3	5843.9
12.5°	5445.8	5483.3	5587.7	5712.3	5770.0
15°	5352.6	5389.1	5494.5	5621.1	5681.9
17.5°	5264.5	5297.9	5398.2	5524.9	5586.6
20°	5166.3	5195.6	5290.9	5413.4	5482.3
22.5°	5054.8	5077.1	5166.3	5282.8	5343.5
25°	4903.9	4937.3	5012.3	5126.7	5180.4
27.5°	4719.5	4740.8	4792.5	4862.4	4884.6
30°	4446.0	4445.0	4427.8	4427.8	4456.1
32.5°	4066.1	4017.5	3935.5	3885.8	3881.8
35°	3466.5	3444.2	3343.9	3315.5	3335.8
37.5°	2735.1	2750.3	2775.6	2816.1	2852.6
40°	2031.0	2069.5	2212.4	2340.0	2395.7
42.5°	1515.4	1565.1	1710.9	1850.7	1918.6
45°	1188.2	1229.8	1320.9	1423.3	1487.1
47.5°	982.6	1003.9	1052.5	1121.4	1153.8
50°	831.7	841.8	864.1	899.5	924.9
52.5°	706.1	702.0	714.2	737.5	746.6
55°	587.5	585.5	585.5	596.7	606.8
57.5°	487.2	484.2	478.1	483.2	486.2
60°	399.1	396.1	391.0	390.0	389.0
62.5°	321.1	316.1	305.9	303.9	303.9
65°	226.9	225.9	217.8	214.8	211.7
67.5°	140.8	136.8	129.7	123.6	122.6
70°	84.1	83.1	77.0	72.9	72.9
72.5°	50.6	48.6	45.6	43.6	42.5
75°	30.4	29.4	27.4	25.3	25.3
77.5°	18.2	17.2	16.2	15.2	15.2
80°	10.1	10.1	9.1	9.1	9.1
82.5°	6.1	6.1	5.1	5.1	5.1
85°	3.0	3.0	3.0	2.0	2.0
87.5°	1.0	1.0	1.0	1.0	1.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)