

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: P247187

Luminaire Tested: **LSR8B90D010 EC8B90930 8LBW0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247187
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-58)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B90D010 EC8B90930 8LBW0H
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
97 CRI 3000 CCT WITH SEMI-SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7844.7 lumens
Efficiency: N/A
Efficacy: 91.1 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.13 / 1.06
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

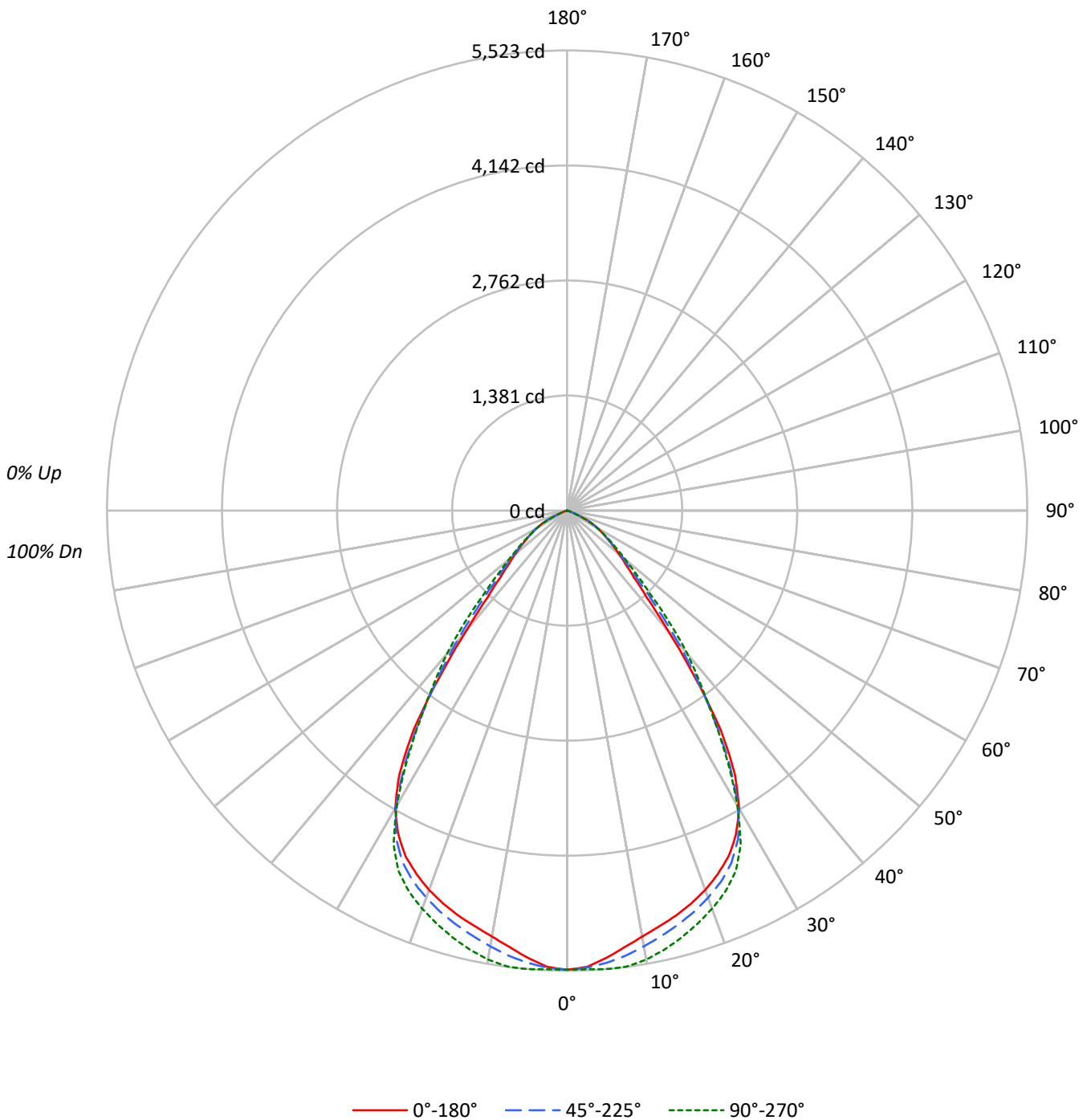
Input Watts (W): 86.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P247187

CATALOG NUMBER: LSR8B90D010 EC8B90930 8LBW0H

Luminous Intensity Polar Plot





TEST NUMBER: P247187

CATALOG NUMBER: LSR8B90D010 EC8B90930 8LBW0H

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	104	110	107	104	102	103	101	99	99	97	96	96	94	93	91
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	86	84	82
3	99	91	85	81	97	90	84	80	87	82	79	85	81	77	82	79	76	74
4	93	84	77	72	91	82	76	72	80	75	71	78	74	70	76	72	69	67
5	87	77	70	65	85	76	69	65	74	68	64	72	67	63	71	66	63	61
6	81	71	64	59	80	70	64	59	69	63	58	67	62	58	66	61	57	56
7	77	66	59	54	75	65	58	54	64	58	53	62	57	53	61	56	53	51
8	72	61	54	49	71	60	54	49	59	53	49	58	53	49	57	52	49	47
9	68	57	50	45	67	56	50	45	55	49	45	54	49	45	53	48	45	43
10	64	53	47	42	63	53	46	42	52	46	42	51	46	42	50	45	42	40

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	Luminaire represents a point source (luminous area is zero).		
5°	No luminance values can be calculated.		
10°			
15°			
20°			
25°			
30°			
35°			
40°			
45°			
50°			
55°			
60°			
65°			
70°			
75°			
80°			
85°			



TEST NUMBER: P247187

CATALOG NUMBER: LSR8B90D010 EC8B90930 8LBW0H

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	516.3	6.6
10°-20°	1454.6	18.5
20°-30°	2127.4	27.1
30°-40°	1927.6	24.6
40°-50°	1025.0	13.1
50°-60°	547.0	7.0
60°-70°	223.1	2.8
70°-80°	22.5	0.3
80°-90°	1.3	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°	4098.2	52.2
0°-40°	6025.8	76.8
0°-60°	7597.8	96.9
0°-90°	7844.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7844.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5511	5511	5511	5511	5511	
5°	5389	5403	5448	5497	5523	508
15°	5034	5063	5145	5251	5305	1420
25°	4582	4602	4665	4745	4782	2094
35°	3212	3167	3101	3078	3084	1930
45°	1133	1166	1263	1364	1400	927
55°	591	590	601	609	620	536
65°	231	230	224	211	212	230
75°	17	17	16	15	15	24
85°	1	1	1	1	1	1
90°	0	0	0	0	0	



TEST NUMBER: P247187

CATALOG NUMBER: LSR8B90D010 EC8B90930 8LBW0H

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5511.3	5511.3	5511.3	5511.3	5511.3
2.5°	5481.6	5480.6	5490.9	5502.9	5509.5
5°	5389.4	5403.4	5448.1	5497.4	5523.4
7.5°	5285.3	5311.3	5388.5	5473.2	5518.8
10°	5191.4	5224.8	5309.5	5420.1	5470.4
12.5°	5110.4	5142.9	5228.6	5342.0	5396.9
15°	5034.1	5063.0	5144.8	5250.9	5304.8
17.5°	4945.7	4973.7	5052.7	5153.1	5199.6
20°	4846.2	4869.5	4943.9	5037.9	5085.3
22.5°	4722.5	4747.7	4823.0	4909.4	4954.1
25°	4582.1	4601.6	4664.8	4744.9	4782.1
27.5°	4386.7	4404.4	4441.6	4484.3	4512.2
30°	4128.1	4123.5	4109.5	4096.5	4084.4
32.5°	3746.7	3702.1	3634.2	3591.5	3593.3
35°	3211.9	3167.3	3101.2	3077.9	3083.5
37.5°	2509.6	2543.1	2570.1	2614.7	2636.1
40°	1880.8	1938.4	2075.2	2194.2	2243.6
42.5°	1413.9	1470.6	1613.9	1739.5	1807.4
45°	1133.0	1166.4	1263.1	1363.6	1399.9
47.5°	948.8	963.6	1019.4	1083.7	1115.3
50°	812.1	821.4	851.1	886.5	906.9
52.5°	695.8	699.5	714.4	734.8	747.8
55°	590.7	589.8	600.9	609.3	619.5
57.5°	499.5	498.6	498.6	501.3	507.9
60°	421.4	418.6	418.6	414.9	416.7
62.5°	343.3	340.4	333.9	329.2	327.4
65°	230.7	229.8	224.2	211.2	212.1
67.5°	119.9	119.1	113.4	109.7	108.0
70°	64.2	62.3	59.5	56.7	54.9
72.5°	32.5	31.6	30.7	28.8	28.8
75°	16.7	16.7	15.8	14.9	14.9
77.5°	8.4	8.4	7.4	7.4	7.4
80°	4.6	4.6	3.7	3.7	3.7
82.5°	1.9	1.9	1.9	1.9	1.9
85°	0.9	0.9	0.9	0.9	0.9
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)