

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: P247219

Luminaire Tested: **LSR8B90D010 EC8B90935 8LBS0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247219
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-83)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B90D010 EC8B90935 8LBS0H
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
90 CRI 3500 CCT WITH SEMI-SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8796.0 lumens
Efficiency: N/A
Efficacy: 102.2 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.22 / 1.23
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

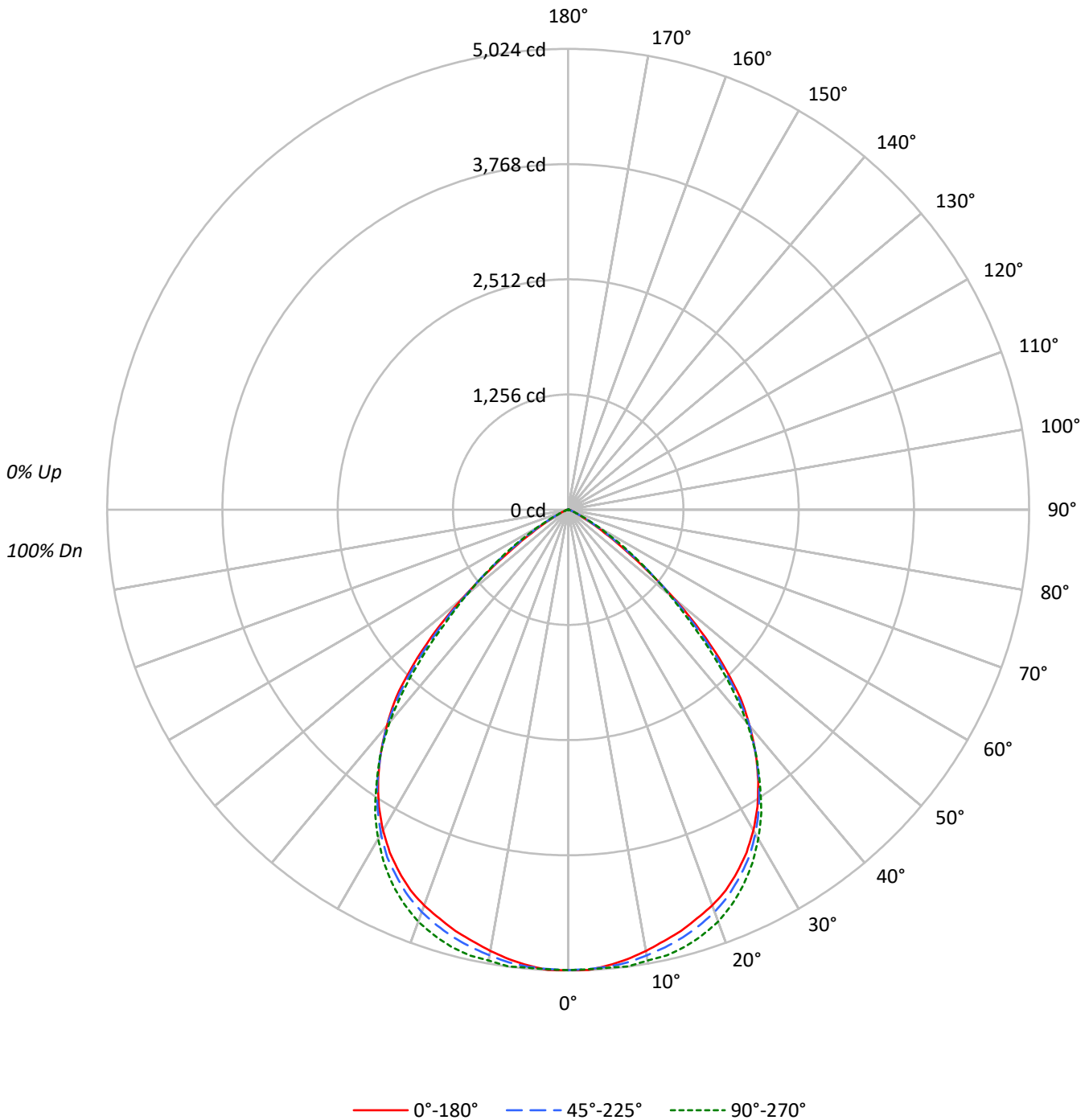
Input Watts (W): 86.1
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P247219

CATALOG NUMBER: LSR8B90D010 EC8B90935 8LBS0H

Luminous Intensity Polar Plot





TEST NUMBER: P247219

CATALOG NUMBER: LSR8B90D010 EC8B90935 8LBS0H

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	68	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58					58			
6	79	69	61	56	78	68	61	56	66	60	55	64	59	55	63	58	54	53					53			
7	74	63	56	50	73	62	55	50	61	55	50	60	54	50	58	53	49	48					48			
8	70	58	51	46	68	57	51	46	56	50	45	55	49	45	54	49	45	43					43			
9	65	54	47	42	64	53	46	42	52	46	42	51	46	41	50	45	41	40					40			
10	62	50	43	38	60	50	43	38	49	42	38	48	42	38	47	42	38	36					36			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	154789	154789	154789
5°	154399	154845	155173
10°	152937	154468	156275
15°	151726	154117	157427
20°	150665	153156	156844
25°	148308	150366	153697
30°	143712	145286	147508
35°	135918	136532	137040
40°	123805	123688	122026
45°	104091	100951	96594
50°	72300	70683	68798
55°	38676	42756	45289
60°	18718	21265	23991
65°	8201	8267	8617
70°	4418	4066	3985
75°	3896	3550	2514
80°	178	675	0
85°	354	354	1698



TEST NUMBER: P247219

CATALOG NUMBER: LSR8B90D010 EC8B90935 8LBS0H

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	475.5	5.4
10°-20°	1363.7	15.5
20°-30°	2034.7	23.1
30°-40°	2253.4	25.6
40°-50°	1757.4	20.0
50°-60°	736.6	8.4
60°-70°	147.5	1.7
70°-80°	23.5	0.3
80°-90°	3.7	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°	3873.9	44.0
0°-40°	6127.3	69.7
0°-60°	8621.3	98.0
0°-90°	8796.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8796.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5020	5020	5020	5020	5020	
5°	4988	4992	5002	5016	5013	473
15°	4753	4774	4828	4899	4931	1341
25°	4359	4376	4419	4488	4517	2003
35°	3611	3605	3627	3644	3640	2244
45°	2387	2376	2315	2244	2215	1806
55°	719	747	795	827	842	701
65°	112	112	113	122	118	136
75°	33	30	30	23	21	27
85°	1	2	1	0	5	4
90°	0	0	0	0	0	



TEST NUMBER: P247219

CATALOG NUMBER: LSR8B90D010 EC8B90935 8LBS0H

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5019.7	5019.7	5019.7	5019.7	5019.7
2.5°	5023.5	5013.9	5012.0	5017.8	5013.9
5°	4988.0	4991.8	5002.4	5015.9	5013.0
7.5°	4941.9	4948.6	4977.4	5012.0	5020.7
10°	4884.3	4898.7	4933.2	4972.6	4990.9
12.5°	4817.0	4836.2	4886.2	4942.9	4976.5
15°	4752.7	4773.8	4827.6	4898.7	4931.3
17.5°	4672.0	4699.8	4752.7	4829.5	4863.1
20°	4591.3	4616.3	4667.2	4742.1	4779.6
22.5°	4491.4	4509.7	4557.7	4621.1	4659.5
25°	4358.9	4376.1	4419.4	4487.6	4517.3
27.5°	4210.9	4231.1	4270.5	4317.6	4344.4
30°	4036.1	4052.4	4080.3	4122.6	4142.7
32.5°	3839.2	3840.2	3868.0	3899.7	3918.0
35°	3610.6	3604.8	3626.9	3644.2	3640.4
37.5°	3358.0	3358.9	3357.0	3358.9	3362.8
40°	3075.6	3062.1	3072.7	3048.7	3031.4
42.5°	2775.9	2762.5	2721.2	2668.3	2639.5
45°	2386.9	2376.3	2314.9	2243.8	2215.0
47.5°	1959.5	1926.8	1876.9	1816.3	1788.5
50°	1507.1	1503.2	1473.4	1459.0	1434.1
52.5°	1077.7	1077.7	1114.2	1108.4	1107.5
55°	719.4	747.3	795.3	827.0	842.4
57.5°	468.7	494.7	535.0	568.6	584.0
60°	303.5	316.0	344.8	370.8	389.0
62.5°	188.3	198.8	214.2	230.5	237.2
65°	112.4	112.4	113.3	122.0	118.1
67.5°	75.9	78.8	74.9	74.9	84.5
70°	49.0	46.1	45.1	44.2	44.2
72.5°	31.7	26.9	28.8	30.7	26.9
75°	32.7	29.8	29.8	23.1	21.1
77.5°	11.5	12.5	8.6	6.7	5.8
80°	1.0	3.8	3.8	1.0	0.0
82.5°	11.5	10.6	8.6	13.4	8.6
85°	1.0	1.9	1.0	0.0	4.8
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)