

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: P247127

Luminaire Tested: **LSR8B90D010 EC8B90940 8LBSOLI**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247127
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-82)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B90D010 EC8B90940 8LBS0LI
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
90 CRI 4000 CCT WITH SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9432.0 lumens
Efficiency: N/A
Efficacy: 109.5 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.31 / 1.25
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

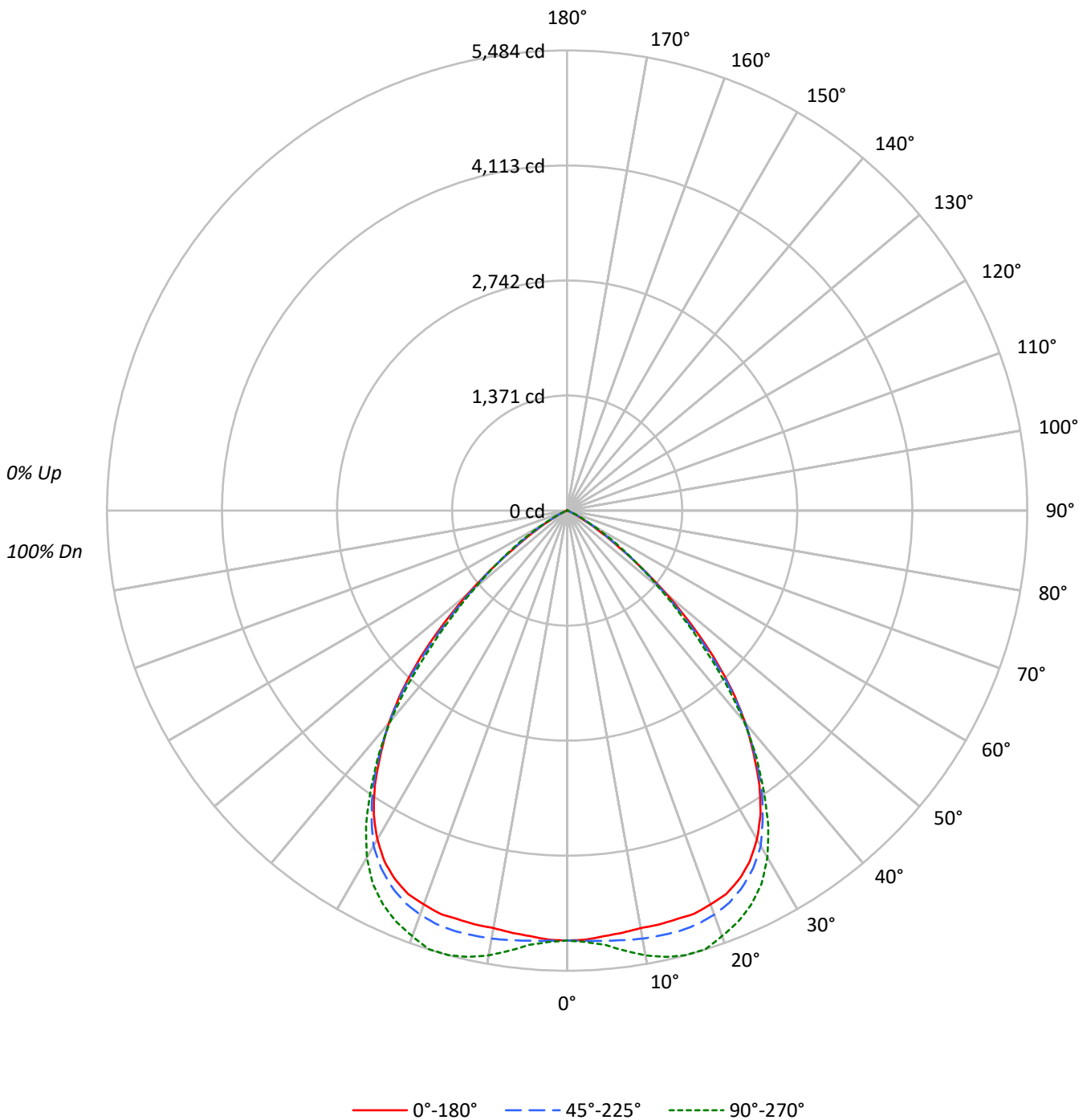
Input Watts (W): 86.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P247127

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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	101	99	99	97	96	95	94	93	91					91			
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	86	84	82					82			
3	98	90	84	79	96	89	83	79	86	81	77	84	80	76	81	78	75	73					73			
4	92	82	76	70	90	81	75	70	79	73	69	77	72	68	75	71	67	66					66			
5	86	75	68	63	84	74	68	63	72	67	62	71	65	61	69	64	61	59					59			
6	80	69	62	57	78	68	61	56	67	60	56	65	60	55	64	59	55	53					53			
7	75	64	56	51	73	63	56	51	61	55	51	60	55	50	59	54	50	48					48			
8	70	59	51	46	69	58	51	46	57	51	46	56	50	46	55	49	46	44					44			
9	66	54	47	42	65	54	47	42	53	47	42	52	46	42	51	46	42	40					40			
10	62	50	44	39	61	50	43	39	49	43	39	48	43	39	47	42	38	37					37			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	157987	157987	157987
5°	157566	159302	160794
10°	158191	162181	168528
15°	160933	165578	175056
20°	163913	168159	177111
25°	165000	168344	176401
30°	161099	164314	169887
35°	150381	151928	153739
40°	132979	132858	131852
45°	107536	104474	99878
50°	73873	71033	68726
55°	38025	40450	43310
60°	15838	18748	21037
65°	6151	6516	7683
70°	1632	1542	2083
75°	715	1311	1191
80°	1065	1243	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	493.0	5.2
10°-20°	1476.0	15.6
20°-30°	2284.0	24.2
30°-40°	2501.6	26.5
40°-50°	1830.2	19.4
50°-60°	718.1	7.6
60°-70°	116.2	1.2
70°-80°	10.7	0.1
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°	4253.0	45.1
0°-40°	6754.6	71.6
0°-60°	9302.9	98.6
0°-90°	9432.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9432.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5123	5123	5123	5123	5123	
5°	5090	5102	5146	5184	5195	485
15°	5041	5074	5187	5379	5484	1428
25°	4850	4864	4948	5097	5185	2224
35°	3995	4002	4036	4074	4084	2474
45°	2466	2462	2396	2322	2290	1878
55°	707	722	752	780	806	696
65°	84	82	89	98	105	102
75°	6	9	11	8	10	10
85°	0	0	0	0	0	3
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5123.4	5123.4	5123.4	5123.4	5123.4
2.5°	5118.3	5121.4	5131.4	5141.4	5147.4
5°	5090.3	5102.3	5146.4	5183.6	5194.6
7.5°	5073.2	5093.3	5162.5	5255.8	5291.9
10°	5052.1	5081.2	5179.5	5312.0	5382.2
12.5°	5053.1	5081.2	5185.6	5358.1	5448.4
15°	5041.1	5074.2	5186.6	5379.2	5483.5
17.5°	5038.1	5054.1	5168.5	5364.1	5479.5
20°	4995.0	5017.0	5124.4	5297.9	5397.2
22.5°	4947.8	4957.8	5056.1	5226.7	5311.0
25°	4849.5	4864.5	4947.8	5097.3	5184.6
27.5°	4714.1	4717.1	4801.3	4939.8	5016.0
30°	4524.4	4539.5	4614.7	4717.1	4771.2
32.5°	4289.7	4287.7	4336.8	4426.1	4461.2
35°	3994.8	4001.8	4035.9	4074.0	4084.0
37.5°	3648.7	3657.7	3680.8	3693.8	3702.8
40°	3303.5	3303.5	3300.5	3286.5	3275.5
42.5°	2910.3	2897.3	2882.2	2820.0	2792.9
45°	2465.9	2461.9	2395.7	2322.4	2290.3
47.5°	1998.4	1976.3	1907.1	1847.9	1834.9
50°	1539.9	1516.8	1480.7	1451.6	1432.6
52.5°	1097.5	1080.5	1095.5	1095.5	1093.5
55°	707.3	722.3	752.4	779.5	805.6
57.5°	448.4	468.5	514.6	549.8	558.8
60°	256.8	271.9	304.0	335.1	341.1
62.5°	161.5	162.5	183.6	201.6	212.7
65°	84.3	82.3	89.3	98.3	105.3
67.5°	35.1	35.1	42.1	41.1	52.2
70°	18.1	15.0	17.1	20.1	23.1
72.5°	13.0	10.0	14.0	18.1	8.0
75°	6.0	9.0	11.0	8.0	10.0
77.5°	8.0	8.0	6.0	10.0	2.0
80°	6.0	4.0	7.0	3.0	0.0
82.5°	1.0	2.0	1.0	1.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	7.0	3.0	5.0	4.0	6.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)