

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: P247335

Luminaire Tested: **LSR8B90D010 EC8B90827 8LBS0WMH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247335
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-84)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B90D010 EC8B90827 8LBS0WMH
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 2700 CCT WITH WARM HAZE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9474.0 lumens
Efficiency: N/A
Efficacy: 110.0 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.2 / 1.23
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

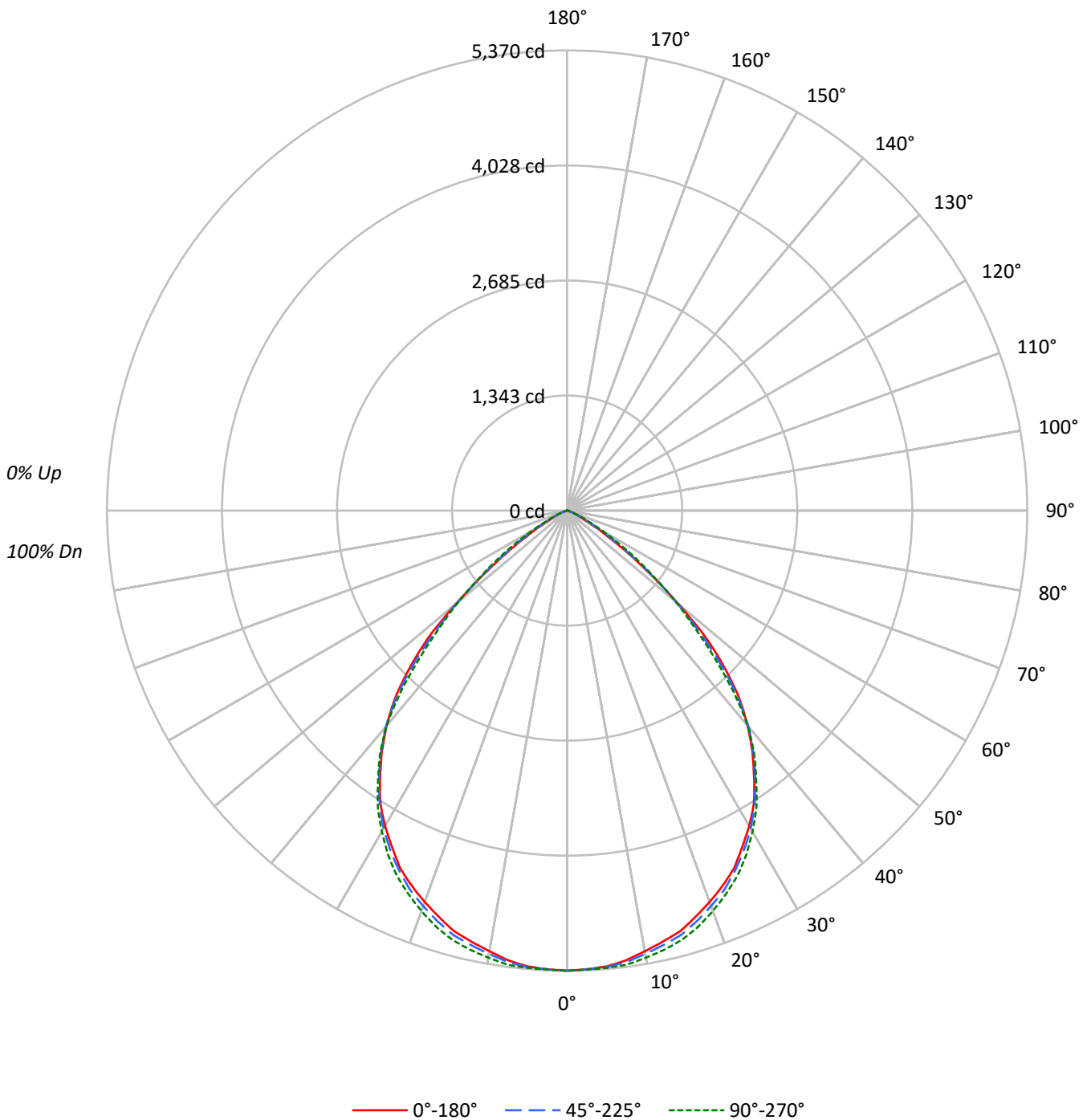
Input Watts (W): 86.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	101	102	100	98	99	97	95	95	94	92	91					91			
2	105	99	94	89	102	97	92	88	94	90	86	90	87	85	88	85	83	81					81			
3	98	90	83	78	95	88	82	78	85	80	76	83	79	75	80	77	74	72					72			
4	91	81	75	69	89	80	74	69	78	72	68	76	71	67	74	70	66	64					64			
5	85	74	67	62	83	73	66	61	71	65	61	70	64	60	68	63	60	58					58			
6	79	68	61	55	77	67	60	55	65	59	55	64	58	54	62	58	54	52					52			
7	74	62	55	50	72	62	55	50	60	54	49	59	53	49	58	53	49	47					47			
8	69	58	50	45	68	57	50	45	56	49	45	55	49	45	54	48	44	43					43			
9	65	53	46	41	64	53	46	41	52	45	41	51	45	41	50	45	41	39					39			
10	61	50	43	38	60	49	42	38	48	42	38	47	42	38	46	41	37	36					36			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	165591	165591	165591
5°	165242	165505	165799
10°	163480	164441	165897
15°	162324	163742	165495
20°	159505	161169	163145
25°	156752	157760	159951
30°	151325	152528	153960
35°	143198	144076	144828
40°	131860	132496	132158
45°	113680	110684	106262
50°	81156	79942	78978
55°	46584	49364	53455
60°	22091	25872	29911
65°	10412	12565	14418
70°	4860	5428	6194
75°	2264	3276	3777
80°	1882	1687	2628
85°	743	1875	1132



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	507.4	5.4
10°-20°	1443.8	15.2
20°-30°	2133.0	22.5
30°-40°	2383.5	25.2
40°-50°	1924.3	20.3
50°-60°	855.9	9.0
60°-70°	192.8	2.0
70°-80°	29.8	0.3
80°-90°	3.5	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°	4084.2	43.1
0°-40°	6467.7	68.3
0°-60°	9247.9	97.6
0°-90°	9474.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9474.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5370	5370	5370	5370	5370	
5°	5338	5337	5347	5348	5356	506
15°	5085	5088	5129	5167	5184	1430
25°	4607	4607	4637	4675	4701	2112
35°	3804	3802	3827	3832	3847	2371
45°	2607	2587	2538	2448	2437	1971
55°	866	879	918	966	994	815
65°	143	161	172	187	198	166
75°	19	26	28	26	32	25
85°	2	3	5	12	3	2
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5370.0	5370.0	5370.0	5370.0	5370.0
2.5°	5356.3	5353.1	5358.4	5355.2	5360.5
5°	5338.3	5337.2	5346.8	5347.8	5356.3
7.5°	5291.8	5292.9	5312.9	5327.7	5344.6
10°	5221.0	5225.2	5251.7	5284.4	5298.2
12.5°	5153.4	5158.7	5192.5	5237.9	5248.5
15°	5084.7	5087.9	5129.1	5167.1	5184.0
17.5°	4972.7	4993.8	5025.5	5068.9	5091.0
20°	4860.7	4875.5	4911.4	4959.0	4971.6
22.5°	4738.1	4754.0	4789.9	4829.0	4842.7
25°	4607.1	4607.1	4636.7	4674.7	4701.1
27.5°	4424.3	4446.5	4467.6	4501.4	4527.8
30°	4249.9	4258.4	4283.7	4311.2	4323.9
32.5°	4056.6	4057.6	4069.2	4099.9	4111.5
35°	3804.0	3801.9	3827.3	3831.5	3847.3
37.5°	3551.5	3562.0	3571.6	3586.3	3587.4
40°	3275.7	3281.0	3291.5	3275.7	3283.1
42.5°	2975.6	2968.2	2948.1	2900.6	2880.5
45°	2606.8	2586.7	2538.1	2448.3	2436.7
47.5°	2200.0	2150.3	2091.2	2024.6	2011.9
50°	1691.7	1696.0	1666.4	1644.2	1646.3
52.5°	1233.1	1247.9	1255.3	1276.5	1288.1
55°	866.5	879.2	918.2	965.8	994.3
57.5°	561.1	585.4	636.1	690.0	710.1
60°	358.2	374.1	419.5	458.6	485.0
62.5°	234.6	239.9	265.2	301.2	302.2
65°	142.7	160.6	172.2	187.0	197.6
67.5°	93.0	93.0	103.6	117.3	120.5
70°	53.9	54.9	60.2	65.5	68.7
72.5°	29.6	32.8	35.9	41.2	46.5
75°	19.0	26.4	27.5	26.4	31.7
77.5°	12.7	12.7	10.6	18.0	19.0
80°	10.6	7.4	9.5	13.7	14.8
82.5°	0.0	1.1	1.1	2.1	0.0
85°	2.1	3.2	5.3	11.6	3.2
87.5°	0.0	3.2	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)