

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: P247195

Luminaire Tested: **LSR8B90D010 EC8B90830 8LBS0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247195
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 EC8B90830 8LBS0H
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 3000 CCT WITH SEMI-SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9919.0 lumens
Efficiency: N/A
Efficacy: 115.2 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

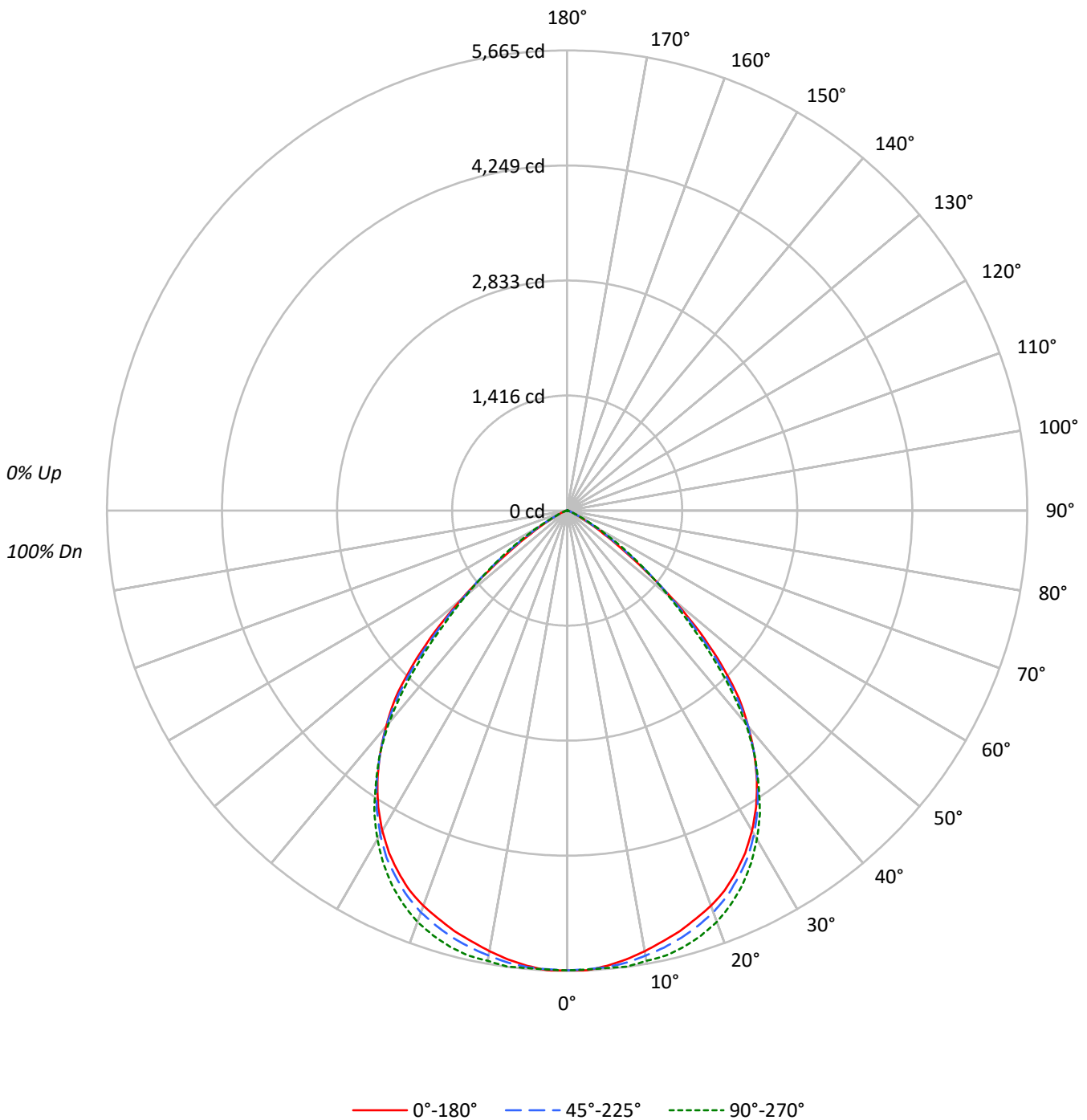
Input Watts (W): 86.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	174552	174552	174552
5°	174111	174615	174984
10°	172460	174192	176227
15°	171094	173792	177527
20°	169901	172707	176868
25°	167242	169563	173322
30°	162060	163834	166340
35°	153272	153965	154537
40°	139613	139480	137604
45°	117378	113837	108927
50°	81530	79712	77577
55°	43617	48219	51068
60°	21111	23984	27056
65°	9245	9325	9719
70°	4977	4589	4490
75°	4384	4003	2836
80°	195	764	0
85°	389	389	1911



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	536.2	5.4
10°-20°	1537.8	15.5
20°-30°	2294.5	23.1
30°-40°	2541.2	25.6
40°-50°	1981.7	20.0
50°-60°	830.7	8.4
60°-70°	166.4	1.7
70°-80°	26.5	0.3
80°-90°	4.1	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°	4368.5	44.0
0°-40°	6909.6	69.7
0°-60°	9722.0	98.0
0°-90°	9919.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9919.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5661	5661	5661	5661	5661	
5°	5625	5629	5641	5656	5653	533
15°	5359	5383	5444	5524	5561	1512
25°	4915	4935	4984	5060	5094	2259
35°	4072	4065	4090	4110	4105	2531
45°	2692	2680	2610	2530	2498	2036
55°	811	843	897	933	950	790
65°	127	127	128	138	133	153
75°	37	34	34	26	24	30
85°	1	2	1	0	5	4
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5660.6	5660.6	5660.6	5660.6	5660.6
2.5°	5664.9	5654.1	5651.9	5658.4	5654.1
5°	5624.8	5629.2	5641.1	5656.2	5653.0
7.5°	5572.8	5580.4	5612.9	5651.9	5661.6
10°	5507.8	5524.1	5563.1	5607.5	5628.1
12.5°	5432.0	5453.7	5510.0	5573.9	5611.8
15°	5359.4	5383.3	5443.9	5524.1	5560.9
17.5°	5268.5	5299.9	5359.4	5446.1	5484.0
20°	5177.5	5205.6	5263.0	5347.5	5389.8
22.5°	5064.8	5085.4	5139.6	5211.1	5254.4
25°	4915.4	4934.9	4983.6	5060.5	5094.1
27.5°	4748.5	4771.3	4815.7	4868.8	4899.1
30°	4551.4	4569.8	4601.2	4648.9	4671.6
32.5°	4329.4	4330.5	4361.9	4397.6	4418.2
35°	4071.6	4065.1	4090.0	4109.5	4105.2
37.5°	3786.7	3787.8	3785.6	3787.8	3792.1
40°	3468.3	3453.1	3465.0	3437.9	3418.4
42.5°	3130.3	3115.2	3068.6	3009.0	2976.5
45°	2691.6	2679.7	2610.4	2530.2	2497.8
47.5°	2209.6	2172.8	2116.5	2048.2	2016.8
50°	1699.5	1695.1	1661.6	1645.3	1617.1
52.5°	1215.3	1215.3	1256.5	1250.0	1248.9
55°	811.3	842.7	896.9	932.6	949.9
57.5°	528.6	557.8	603.3	641.2	658.6
60°	342.3	356.4	388.9	418.1	438.7
62.5°	212.3	224.2	241.5	260.0	267.5
65°	126.7	126.7	127.8	137.6	133.2
67.5°	85.6	88.8	84.5	84.5	95.3
70°	55.2	52.0	50.9	49.8	49.8
72.5°	35.7	30.3	32.5	34.7	30.3
75°	36.8	33.6	33.6	26.0	23.8
77.5°	13.0	14.1	9.7	7.6	6.5
80°	1.1	4.3	4.3	1.1	0.0
82.5°	13.0	11.9	9.7	15.2	9.7
85°	1.1	2.2	1.1	0.0	5.4
87.5°	0.0	0.0	0.0	1.1	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)