

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: P247443

Luminaire Tested: **LSR8B90D010 EC8B90840 8LBS0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247443
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-85)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B90D010 EC8B90840 8LBS0WH
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 4000 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10442.0 lumens
Efficiency: N/A
Efficacy: 121.3 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.29 / 1.24
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

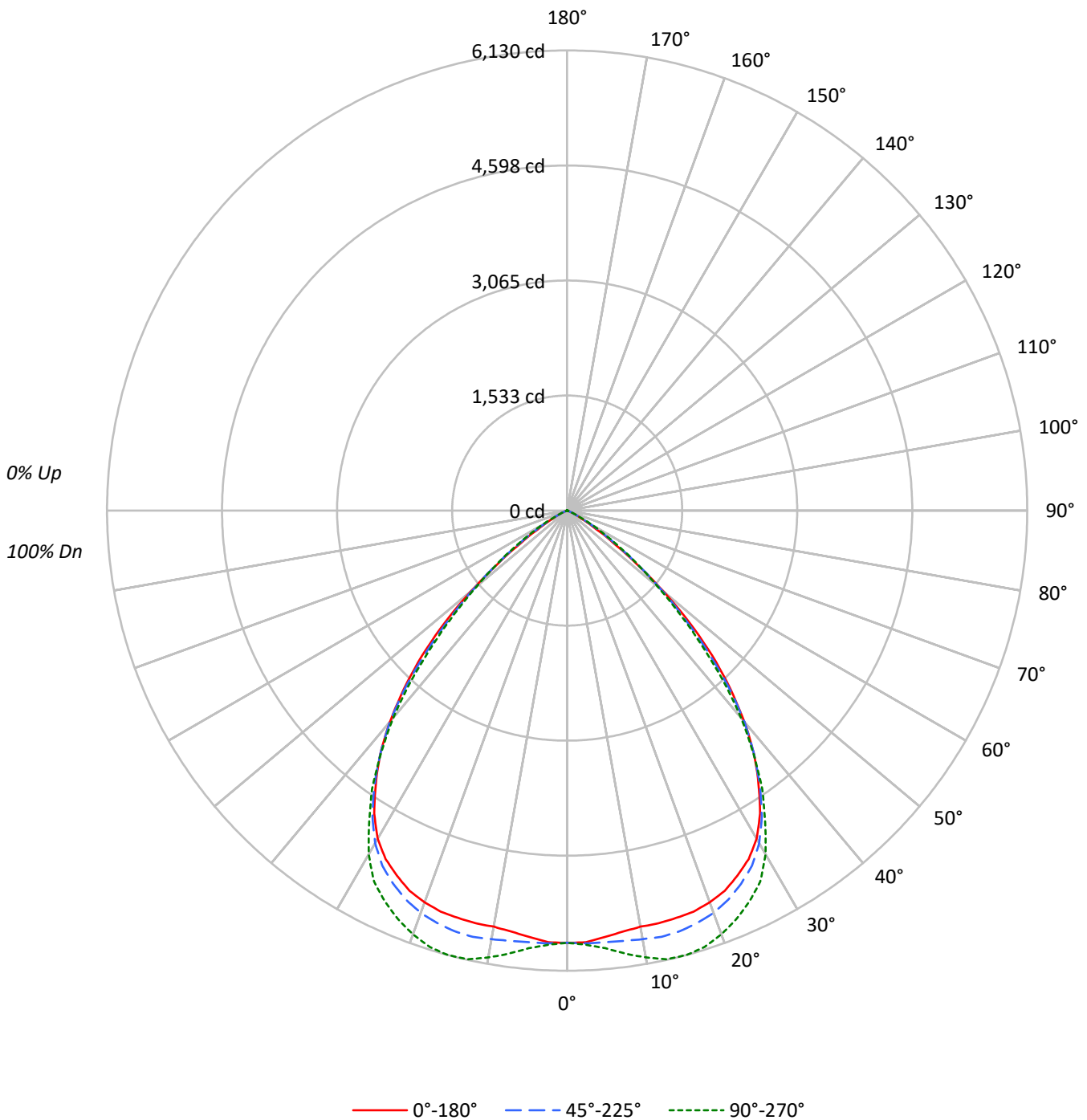
Input Watts (W): 86.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	177528	177528	177528
5°	176544	178655	181150
10°	176237	181525	189234
15°	179324	185182	195685
20°	182237	187120	197109
25°	182553	186588	195421
30°	179771	182121	188178
35°	167310	168405	170513
40°	147877	147696	145039
45°	119114	114675	110231
50°	79985	77889	75260
55°	40606	44095	46805
60°	16633	20358	23738
65°	6202	6611	7756
70°	406	406	307
75°	798	1334	1728
80°	195	0	0
85°	778	0	778



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	552.8	5.3
10°-20°	1647.5	15.8
20°-30°	2535.3	24.3
30°-40°	2776.8	26.6
40°-50°	2019.0	19.3
50°-60°	776.7	7.4
60°-70°	121.6	1.2
70°-80°	8.7	0.1
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°	4735.6	45.4
0°-40°	7512.4	71.9
0°-60°	10308.1	98.7
0°-90°	10442.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10442.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5757	5757	5757	5757	5757	
5°	5703	5732	5772	5826	5852	542
15°	5617	5661	5801	6016	6130	1589
25°	5365	5398	5484	5646	5744	2468
35°	4444	4444	4474	4502	4530	2760
45°	2731	2703	2630	2562	2528	2077
55°	755	775	820	847	871	738
65°	85	88	91	103	106	104
75°	7	14	11	14	14	9
85°	2	0	0	0	2	5
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5757.1	5757.1	5757.1	5757.1	5757.1
2.5°	5755.9	5764.9	5770.5	5782.8	5788.4
5°	5703.4	5732.4	5771.6	5826.4	5852.2
7.5°	5657.5	5697.8	5781.7	5900.3	5952.9
10°	5628.4	5672.0	5797.3	5958.5	6043.5
12.5°	5631.7	5679.9	5815.2	6008.8	6123.0
15°	5617.2	5660.8	5800.7	6015.5	6129.7
17.5°	5600.4	5636.2	5760.4	5970.8	6093.9
20°	5553.4	5583.6	5702.2	5892.5	6006.6
22.5°	5482.9	5510.9	5609.4	5786.2	5891.3
25°	5365.4	5397.9	5484.0	5646.3	5743.6
27.5°	5234.5	5253.5	5333.0	5480.7	5573.6
30°	5048.8	5055.5	5114.8	5228.9	5284.9
32.5°	4783.6	4782.4	4827.2	4884.3	4905.5
35°	4444.5	4444.5	4473.6	4501.6	4529.6
37.5°	4092.0	4087.6	4090.9	4097.6	4074.1
40°	3673.6	3664.6	3669.1	3628.8	3603.1
42.5°	3214.8	3222.6	3177.9	3106.2	3079.4
45°	2731.4	2703.4	2629.6	2562.4	2527.7
47.5°	2217.8	2174.1	2103.6	2034.3	2028.7
50°	1667.3	1669.5	1623.6	1584.5	1568.8
52.5°	1157.0	1169.3	1192.8	1197.3	1202.9
55°	755.3	775.4	820.2	847.1	870.6
57.5°	462.1	499.1	537.1	587.5	591.9
60°	269.7	287.6	330.1	368.1	384.9
62.5°	152.2	169.0	177.9	200.3	205.9
65°	85.0	88.4	90.6	102.9	106.3
67.5°	51.5	53.7	55.9	54.8	57.1
70°	4.5	10.1	4.5	5.6	3.4
72.5°	19.0	12.3	13.4	10.1	6.7
75°	6.7	14.5	11.2	14.5	14.5
77.5°	4.5	3.4	5.6	6.7	5.6
80°	1.1	0.0	0.0	0.0	0.0
82.5°	10.1	9.0	5.6	9.0	3.4
85°	2.2	0.0	0.0	0.0	2.2
87.5°	6.7	3.4	3.4	7.8	2.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)