

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: P247535

Luminaire Tested: **LSR8B90D010 EC8B90835 8LBS0GPH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247535
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-86)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B90D010 EC8B90835 8LBS0GPH
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 3500 CCT WITH GRAPHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9414.0 lumens
Efficiency: N/A
Efficacy: 109.3 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.19 / 1.23
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

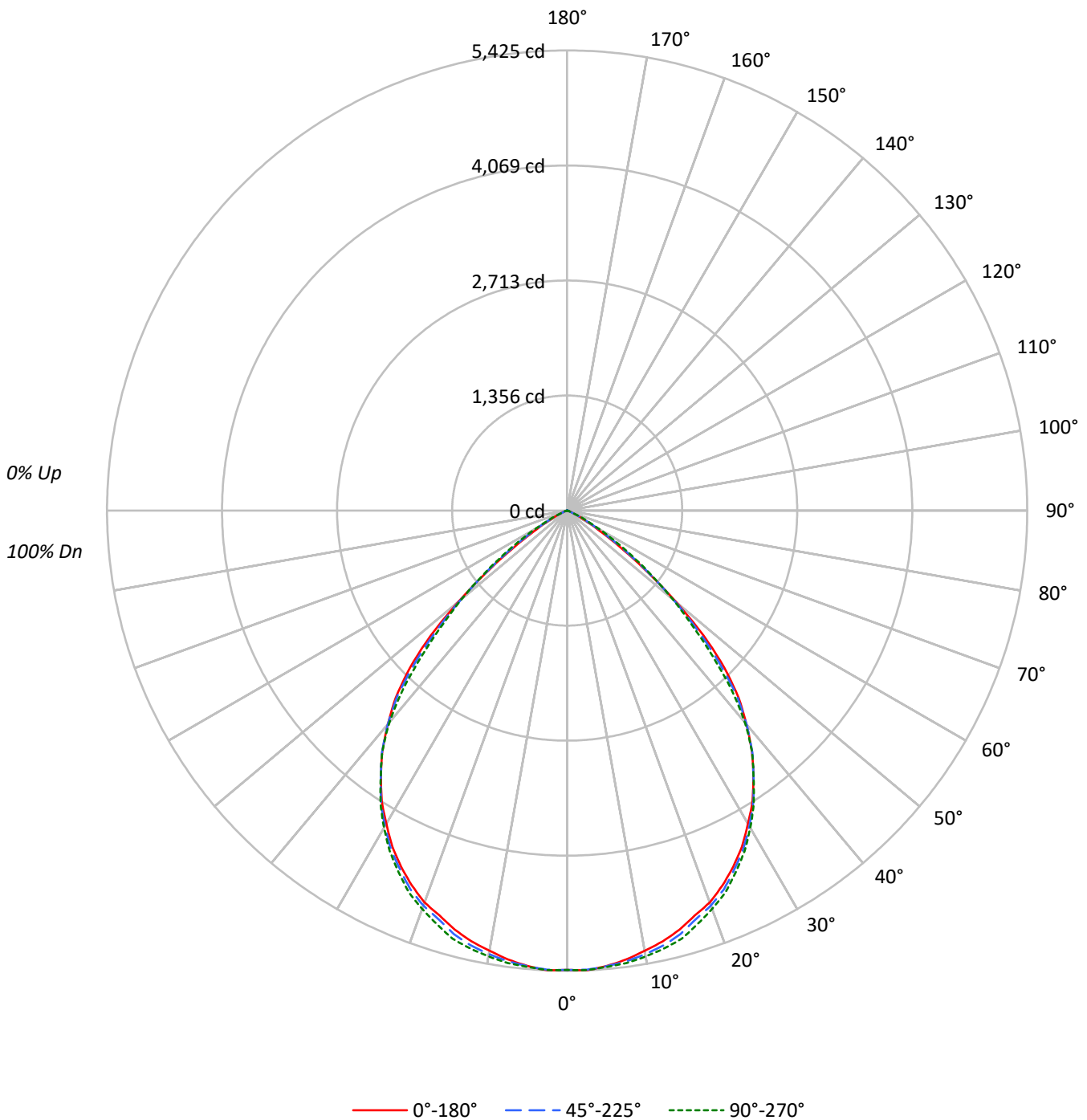
Input Watts (W): 86.1
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	67	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58					58			
6	79	68	61	56	78	68	61	56	66	60	55	64	59	55	63	58	54	53					53			
7	74	63	55	50	73	62	55	50	61	54	50	59	54	50	58	53	49	48					48			
8	70	58	51	46	68	57	50	46	56	50	45	55	49	45	54	49	45	43					43			
9	65	54	47	42	64	53	46	42	52	46	41	51	45	41	50	45	41	39					39			
10	62	50	43	38	60	49	43	38	48	42	38	48	42	38	47	42	38	36					36			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	167000	167000	167000
5°	166799	166870	167115
10°	164989	166261	167106
15°	163289	164981	166778
20°	161307	162600	164004
25°	157589	158739	160043
30°	151806	152966	153771
35°	144038	144166	144207
40°	132351	132580	131220
45°	114500	110471	105560
50°	80297	78675	77649
55°	43601	47235	50321
60°	19242	23479	26606
65°	7399	9288	11098
70°	3760	3354	4364
75°	1203	2276	2014
80°	994	195	1208
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	512.3	5.4
10°-20°	1454.9	15.5
20°-30°	2145.5	22.8
30°-40°	2388.1	25.4
40°-50°	1921.9	20.4
50°-60°	817.3	8.7
60°-70°	153.2	1.6
70°-80°	18.6	0.2
80°-90°	2.3	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°	4112.7	43.7
0°-40°	6500.7	69.1
0°-60°	9239.9	98.2
0°-90°	9414.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9414.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5416	5416	5416	5416	5416	
5°	5389	5390	5391	5400	5399	511
15°	5115	5143	5168	5207	5224	1441
25°	4632	4649	4666	4692	4704	2129
35°	3826	3828	3830	3831	3831	2383
45°	2626	2604	2533	2457	2421	1974
55°	811	829	879	914	936	772
65°	101	113	127	136	152	131
75°	10	12	19	18	17	16
85°	0	0	0	0	0	2
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5415.7	5415.7	5415.7	5415.7	5415.7
2.5°	5424.7	5428.1	5416.8	5419.1	5422.4
5°	5388.6	5389.8	5390.9	5399.9	5398.8
7.5°	5338.0	5345.8	5359.4	5376.2	5380.8
10°	5269.2	5289.5	5309.8	5330.1	5336.8
12.5°	5201.7	5214.0	5250.1	5270.4	5287.3
15°	5114.9	5143.1	5167.9	5207.3	5224.2
17.5°	5004.5	5024.8	5048.5	5087.9	5111.5
20°	4915.6	4921.2	4955.0	4989.9	4997.8
22.5°	4783.8	4796.2	4831.1	4854.7	4875.0
25°	4631.7	4648.6	4665.5	4692.5	4703.8
27.5°	4465.0	4475.1	4498.8	4517.9	4528.1
30°	4263.4	4285.9	4296.0	4305.1	4318.6
32.5°	4067.4	4074.1	4083.2	4088.8	4095.5
35°	3826.3	3827.5	3829.7	3830.8	3830.8
37.5°	3579.7	3587.5	3585.3	3578.5	3581.9
40°	3287.9	3301.4	3293.6	3273.3	3259.8
42.5°	2993.9	2987.2	2960.1	2899.3	2871.2
45°	2625.6	2604.2	2533.2	2456.7	2420.6
47.5°	2184.1	2136.8	2077.1	2017.4	1993.7
50°	1673.8	1667.1	1640.0	1616.4	1618.6
52.5°	1199.6	1216.5	1222.1	1244.7	1255.9
55°	811.0	829.0	878.6	913.5	936.0
57.5°	493.4	528.3	581.2	638.7	667.9
60°	312.0	332.3	380.7	417.9	431.4
62.5°	194.9	196.0	219.6	248.9	261.3
65°	101.4	112.6	127.3	136.3	152.1
67.5°	63.1	63.1	62.0	75.5	84.5
70°	41.7	36.0	37.2	45.1	48.4
72.5°	14.6	24.8	22.5	22.5	15.8
75°	10.1	12.4	19.1	18.0	16.9
77.5°	13.5	12.4	9.0	7.9	15.8
80°	5.6	4.5	1.1	6.8	6.8
82.5°	5.6	2.3	6.8	9.0	5.6
85°	0.0	0.0	0.0	0.0	0.0
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)