

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: P247171

Luminaire Tested: **LSR8B90D010 EC8B90935 8LBW0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247171
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-58)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B90D010 EC8B90935 8LBW0H
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
90 CRI 3500 CCT WITH SEMI-SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8101.0 lumens
Efficiency: N/A
Efficacy: 94.1 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.13 / 1.06
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

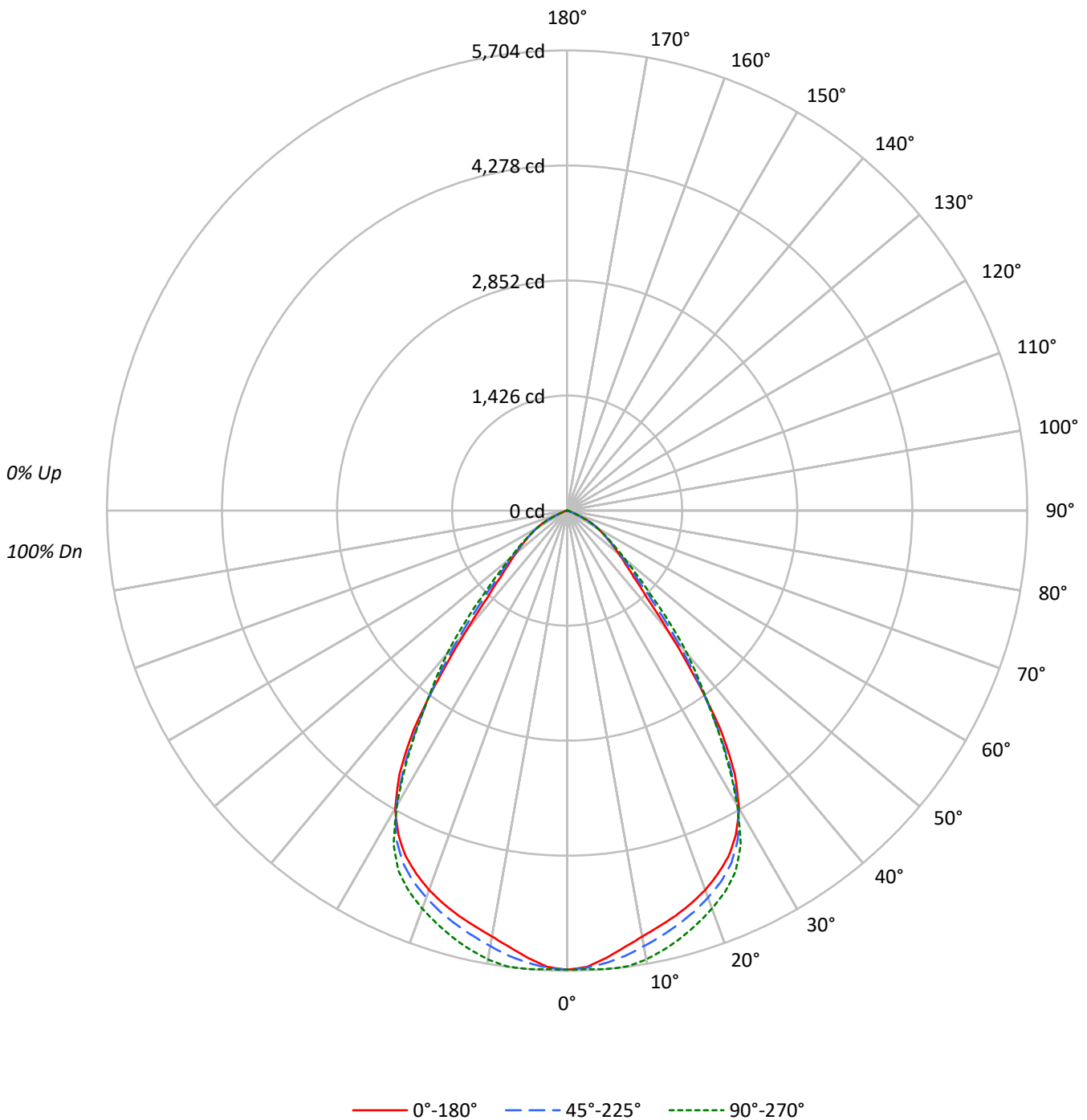
Input Watts (W): 86.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	104	110	107	104	102	103	101	99	99	97	96	96	94	93	91					91			
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	86	84	82					82			
3	99	91	85	81	97	90	84	80	87	82	79	85	81	77	82	79	76	74					74			
4	93	84	77	72	91	82	76	72	80	75	71	78	74	70	76	72	69	67					67			
5	87	77	70	65	85	76	69	65	74	68	64	72	67	63	71	66	63	61					61			
6	81	71	64	59	80	70	64	59	69	63	58	67	62	58	66	61	57	56					56			
7	77	66	59	54	75	65	58	54	64	58	53	62	57	53	61	56	53	51					51			
8	72	61	54	49	71	60	54	49	59	53	49	58	53	49	57	52	49	47					47			
9	68	57	50	45	67	56	50	45	55	49	45	54	49	45	53	48	45	43					43			
10	64	53	47	42	63	53	46	42	52	46	42	51	46	42	50	45	42	40					40			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	175499	175499	175499
5°	172275	174148	176556
10°	167861	171681	176885
15°	165961	169610	174883
20°	164224	167535	172326
25°	160992	163901	168018
30°	151791	151108	150182
35°	124858	120556	119870
40°	78185	86264	93264
45°	51023	56884	63041
50°	40230	42163	44927
55°	32794	33359	34391
60°	26834	26661	26538
65°	17380	16891	15979
70°	5978	5545	5112
75°	2061	1942	1835
80°	852	675	675
85°	354	354	354



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	533.1	6.6
10°-20°	1502.1	18.5
20°-30°	2196.8	27.1
30°-40°	1990.6	24.6
40°-50°	1058.4	13.1
50°-60°	564.9	7.0
60°-70°	230.4	2.8
70°-80°	23.2	0.3
80°-90°	1.4	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°	4232.1	52.2
0°-40°	6222.7	76.8
0°-60°	7846.0	96.9
0°-90°	8101.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8101.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5691	5691	5691	5691	5691	
5°	5566	5580	5626	5677	5704	525
15°	5199	5228	5313	5422	5478	1467
25°	4732	4752	4817	4900	4938	2162
35°	3317	3271	3202	3178	3184	1993
45°	1170	1204	1304	1408	1446	957
55°	610	609	620	629	640	553
65°	238	237	232	218	219	237
75°	17	17	16	15	15	25
85°	1	1	1	1	1	1
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5691.3	5691.3	5691.3	5691.3	5691.3
2.5°	5660.6	5659.6	5670.2	5682.7	5689.4
5°	5565.5	5579.9	5626.0	5676.9	5703.8
7.5°	5457.9	5484.8	5564.5	5651.9	5699.0
10°	5360.9	5395.5	5482.9	5597.2	5649.1
12.5°	5277.3	5310.9	5399.3	5516.5	5573.2
15°	5198.6	5228.3	5312.9	5422.4	5478.1
17.5°	5107.3	5136.1	5217.8	5321.5	5369.5
20°	5004.5	5028.5	5105.4	5202.4	5251.4
22.5°	4876.8	4902.7	4980.5	5069.8	5115.9
25°	4731.7	4751.9	4817.2	4899.8	4938.2
27.5°	4530.0	4548.3	4586.7	4630.9	4659.7
30°	4263.0	4258.2	4243.8	4230.3	4217.8
32.5°	3869.1	3823.0	3752.9	3708.7	3710.6
35°	3316.8	3270.7	3202.5	3178.5	3184.3
37.5°	2591.6	2626.2	2654.0	2700.1	2722.2
40°	1942.3	2001.8	2143.0	2266.0	2316.9
42.5°	1460.1	1518.6	1666.6	1796.2	1866.4
45°	1170.0	1204.5	1304.4	1408.2	1445.6
47.5°	979.8	995.1	1052.8	1119.1	1151.7
50°	838.6	848.2	878.9	915.4	936.5
52.5°	718.5	722.3	737.7	758.8	772.3
55°	610.0	609.0	620.5	629.2	639.7
57.5°	515.8	514.9	514.9	517.7	524.5
60°	435.1	432.3	432.3	428.4	430.3
62.5°	354.4	351.6	344.8	340.0	338.1
65°	238.2	237.3	231.5	218.0	219.0
67.5°	123.9	123.0	117.2	113.3	111.4
70°	66.3	64.4	61.5	58.6	56.7
72.5°	33.6	32.7	31.7	29.8	29.8
75°	17.3	17.3	16.3	15.4	15.4
77.5°	8.6	8.6	7.7	7.7	7.7
80°	4.8	4.8	3.8	3.8	3.8
82.5°	1.9	1.9	1.9	1.9	1.9
85°	1.0	1.0	1.0	1.0	1.0
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)