

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: P247379

Luminaire Tested: **LSR8B90D010 EC8B909730 8LBS0WMH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247379
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 EC8B909730 8LBS0WMH
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
97 CRI 3000 CCT WITH WARM HAZE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7439.0 lumens
Efficiency: N/A
Efficacy: 86.4 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.2 / 1.23
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

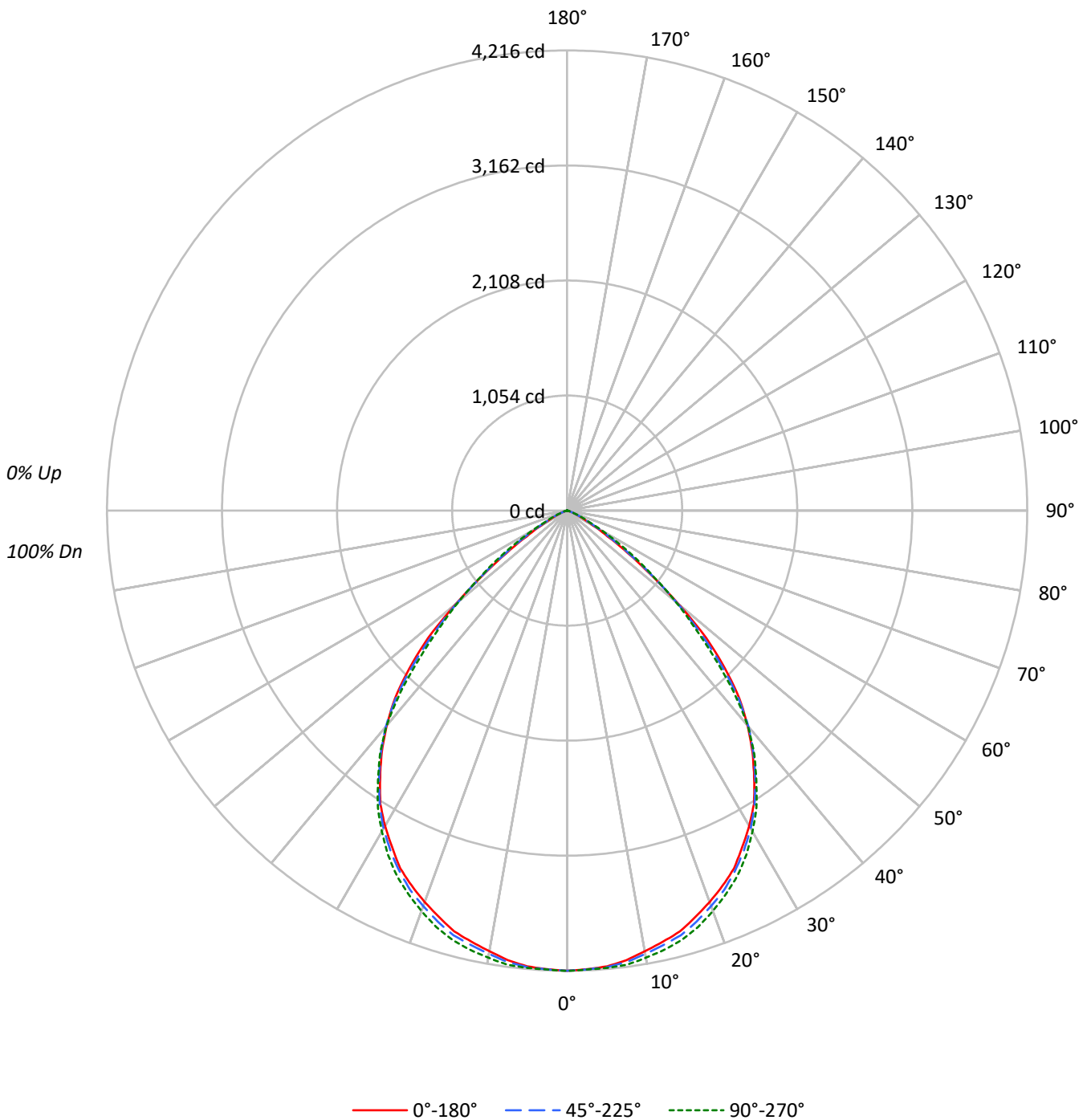
Input Watts (W): 86.1
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0			
RCR																								
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100						
1	112	109	106	103	110	107	104	101	102	100	98	99	97	95	95	94	92	91						
2	105	99	94	89	102	97	92	88	94	90	86	90	87	85	88	85	83	81						
3	98	90	83	78	95	88	82	78	85	80	76	83	79	75	80	77	74	72						
4	91	81	75	69	89	80	74	69	78	72	68	76	71	67	74	70	66	64						
5	85	74	67	62	83	73	66	61	71	65	61	70	64	60	68	63	60	58						
6	79	68	61	55	77	67	60	55	65	59	55	64	58	54	62	58	54	52						
7	74	62	55	50	72	62	55	50	60	54	49	59	53	49	58	53	49	47						
8	69	58	50	45	68	57	50	45	56	49	45	55	49	45	54	48	44	43						
9	65	53	46	41	64	53	46	41	52	45	41	51	45	41	50	45	41	39						
10	61	50	43	38	60	49	42	38	48	42	38	47	42	38	46	41	37	36						

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	Luminaire represents a point source (luminous area is zero).		
5°	No luminance values can be calculated.		
10°			
15°			
20°			
25°			
30°			
35°			
40°			
45°			
50°			
55°			
60°			
65°			
70°			
75°			
80°			
85°			



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	398.4	5.4
10°-20°	1133.7	15.2
20°-30°	1674.8	22.5
30°-40°	1871.5	25.2
40°-50°	1510.9	20.3
50°-60°	672.1	9.0
60°-70°	151.4	2.0
70°-80°	23.4	0.3
80°-90°	2.8	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°	3206.9	43.1
0°-40°	5078.5	68.3
0°-60°	7261.5	97.6
0°-90°	7439.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7439.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4216	4216	4216	4216	4216	
5°	4192	4191	4198	4199	4206	397
15°	3992	3995	4027	4057	4070	1123
25°	3618	3618	3641	3671	3691	1658
35°	2987	2985	3005	3008	3021	1862
45°	2047	2031	1993	1922	1913	1548
55°	680	690	721	758	781	640
65°	112	126	135	147	155	130
75°	15	21	22	21	25	19
85°	2	2	4	9	2	2
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4216.5	4216.5	4216.5	4216.5	4216.5
2.5°	4205.8	4203.3	4207.4	4204.9	4209.1
5°	4191.6	4190.8	4198.3	4199.1	4205.8
7.5°	4155.1	4156.0	4171.7	4183.3	4196.6
10°	4099.6	4102.9	4123.6	4149.3	4160.1
12.5°	4046.4	4050.6	4077.1	4112.8	4121.1
15°	3992.5	3995.0	4027.4	4057.2	4070.5
17.5°	3904.6	3921.2	3946.1	3980.1	3997.5
20°	3816.6	3828.2	3856.4	3893.8	3903.7
22.5°	3720.4	3732.8	3761.0	3791.7	3802.5
25°	3617.5	3617.5	3640.7	3670.6	3691.3
27.5°	3474.0	3491.4	3508.0	3534.5	3555.3
30°	3337.1	3343.7	3363.6	3385.2	3395.1
32.5°	3185.2	3186.0	3195.2	3219.2	3228.4
35°	2986.9	2985.3	3005.2	3008.5	3020.9
37.5°	2788.6	2796.9	2804.4	2816.0	2816.8
40°	2572.1	2576.2	2584.5	2572.1	2577.9
42.5°	2336.4	2330.6	2314.9	2277.5	2261.8
45°	2046.9	2031.1	1992.9	1922.4	1913.3
47.5°	1727.4	1688.4	1642.0	1589.7	1579.7
50°	1328.4	1331.7	1308.4	1291.0	1292.7
52.5°	968.3	979.9	985.7	1002.3	1011.4
55°	680.4	690.3	721.0	758.3	780.7
57.5°	440.6	459.7	499.5	541.8	557.6
60°	281.3	293.7	329.4	360.1	380.8
62.5°	184.2	188.3	208.3	236.5	237.3
65°	112.0	126.1	135.2	146.9	155.2
67.5°	73.0	73.0	81.3	92.1	94.6
70°	42.3	43.1	47.3	51.4	53.9
72.5°	23.2	25.7	28.2	32.4	36.5
75°	14.9	20.7	21.6	20.7	24.9
77.5°	10.0	10.0	8.3	14.1	14.9
80°	8.3	5.8	7.5	10.8	11.6
82.5°	0.0	0.8	0.8	1.7	0.0
85°	1.7	2.5	4.1	9.1	2.5
87.5°	0.0	2.5	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)