

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: P247377

Luminaire Tested: **LSR8B120D010 EC8B1209727 8LBS0WMH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247377
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: LSR8B120D010 EC8B1209727 8LBS0WMH
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
97 CRI 2700 CCT WITH WARM HAZE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9197.0 lumens
Efficiency: N/A
Efficacy: 77.7 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

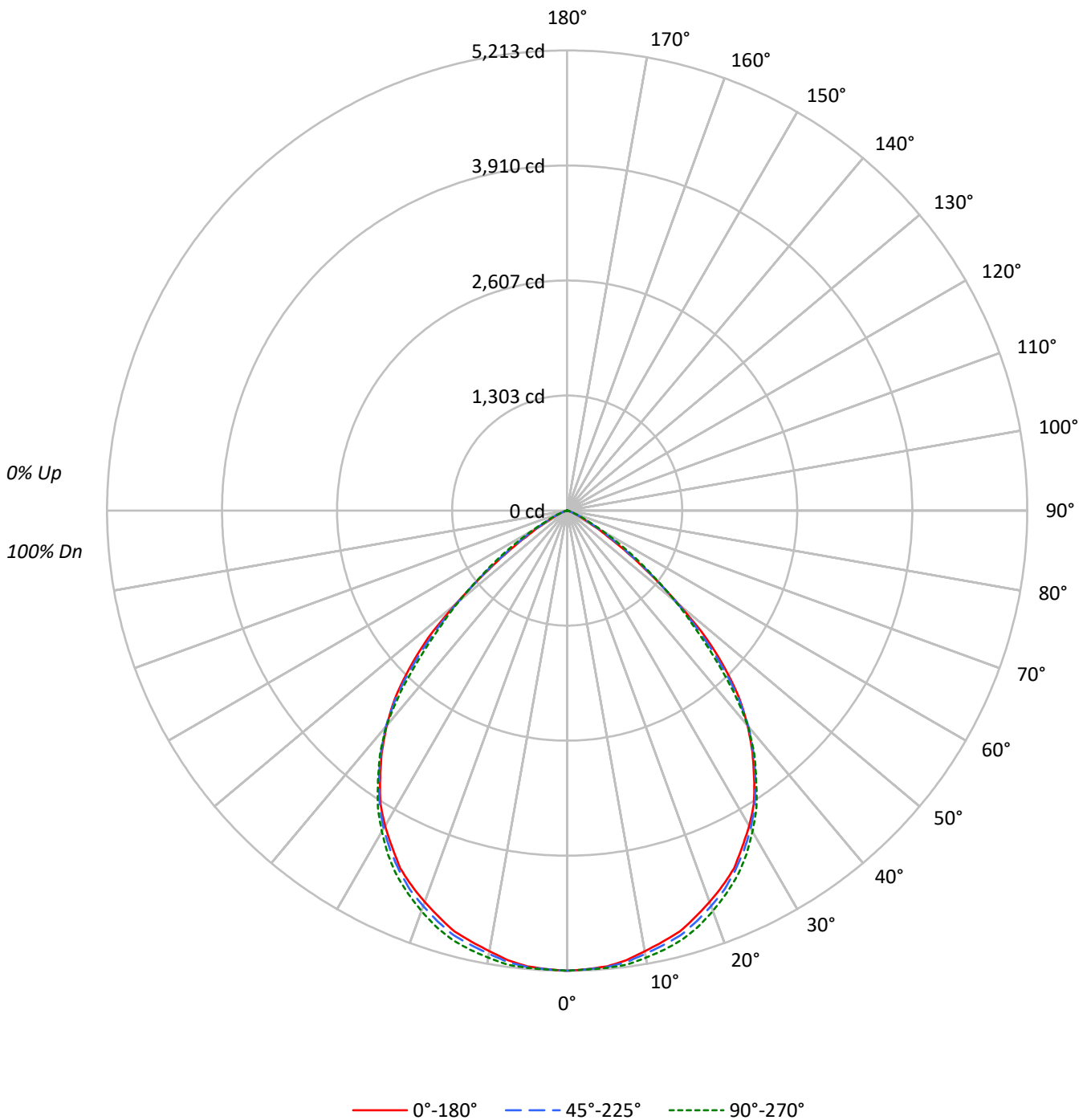
Input Watts (W): 118.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0			
RCR																								
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100	100			
1	112	109	106	103	110	107	104	101	102	100	98	99	97	95	95	94	92	91	91	91	91			
2	105	99	94	89	102	97	92	88	94	90	86	90	87	85	88	85	83	81	81	81	81			
3	98	90	83	78	95	88	82	78	85	80	76	83	79	75	80	77	74	72	72	72	72			
4	91	81	75	69	89	80	74	69	78	72	68	76	71	67	74	70	66	64	64	64	64			
5	85	74	67	62	83	73	66	61	71	65	61	70	64	60	68	63	60	58	58	58	58			
6	79	68	61	55	77	67	60	55	65	59	55	64	58	54	62	58	54	52	52	52	52			
7	74	62	55	50	72	62	55	50	60	54	49	59	53	49	58	53	49	47	47	47	47			
8	69	58	50	45	68	57	50	45	56	49	45	55	49	45	54	48	44	43	43	43	43			
9	65	53	46	41	64	53	46	41	52	45	41	51	45	41	50	45	41	39	39	39	39			
10	61	50	43	38	60	49	42	38	48	42	38	47	42	38	46	41	37	36	36	36	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°	492.6	5.4
10°-20°	1401.6	15.2
20°-30°	2070.7	22.5
30°-40°	2313.8	25.2
40°-50°	1868.0	20.3
50°-60°	830.9	9.0
60°-70°	187.2	2.0
70°-80°	28.9	0.3
80°-90°	3.4	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°	3964.8	43.1
0°-40°	6278.6	68.3
0°-60°	8977.5	97.6
0°-90°	9197.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9197.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5213	5213	5213	5213	5213	
5°	5182	5181	5190	5192	5200	491
15°	4936	4939	4979	5016	5032	1388
25°	4472	4472	4501	4538	4564	2050
35°	3693	3691	3715	3720	3735	2302
45°	2531	2511	2464	2377	2365	1913
55°	841	853	891	938	965	791
65°	138	156	167	182	192	161
75°	18	26	27	26	31	24
85°	2	3	5	11	3	2
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5213.0	5213.0	5213.0	5213.0	5213.0
2.5°	5199.7	5196.6	5201.7	5198.6	5203.8
5°	5182.2	5181.2	5190.4	5191.5	5199.7
7.5°	5137.1	5138.1	5157.6	5172.0	5188.4
10°	5068.4	5072.5	5098.1	5129.9	5143.2
12.5°	5002.7	5007.8	5040.7	5084.8	5095.0
15°	4936.0	4939.1	4979.1	5016.0	5032.5
17.5°	4827.3	4847.8	4878.6	4920.7	4942.2
20°	4718.6	4732.9	4767.8	4814.0	4826.3
22.5°	4599.6	4615.0	4649.8	4687.8	4701.1
25°	4472.4	4472.4	4501.1	4538.0	4563.7
27.5°	4294.9	4316.5	4337.0	4369.8	4395.5
30°	4125.7	4133.9	4158.5	4185.2	4197.5
32.5°	3938.0	3939.0	3950.3	3980.0	3991.3
35°	3692.8	3690.7	3715.4	3719.5	3734.9
37.5°	3447.6	3457.9	3467.1	3481.5	3482.5
40°	3179.9	3185.0	3195.3	3179.9	3187.1
42.5°	2888.6	2881.4	2861.9	2815.8	2796.3
45°	2530.6	2511.1	2463.9	2376.7	2365.4
47.5°	2135.7	2087.5	2030.0	1965.4	1953.1
50°	1642.3	1646.4	1617.7	1596.1	1598.2
52.5°	1197.1	1211.4	1218.6	1239.1	1250.4
55°	841.1	853.4	891.4	937.6	965.3
57.5°	544.7	568.3	617.5	669.8	689.3
60°	347.7	363.1	407.2	445.2	470.8
62.5°	227.7	232.9	257.5	292.3	293.4
65°	138.5	155.9	167.2	181.6	191.8
67.5°	90.3	90.3	100.5	113.9	116.9
70°	52.3	53.3	58.5	63.6	66.7
72.5°	28.7	31.8	34.9	40.0	45.1
75°	18.5	25.6	26.7	25.6	30.8
77.5°	12.3	12.3	10.3	17.4	18.5
80°	10.3	7.2	9.2	13.3	14.4
82.5°	0.0	1.0	1.0	2.1	0.0
85°	2.1	3.1	5.1	11.3	3.1
87.5°	0.0	3.1	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)