

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: P247125

Luminaire Tested: **LSR8B120D010 EC8B120935 8LBSOLI**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247125
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-82)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B120D010 EC8B120935 8LBS0LI
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
90 CRI 3500 CCT WITH SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11811.0 lumens
Efficiency: N/A
Efficacy: 99.8 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.31 / 1.25
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

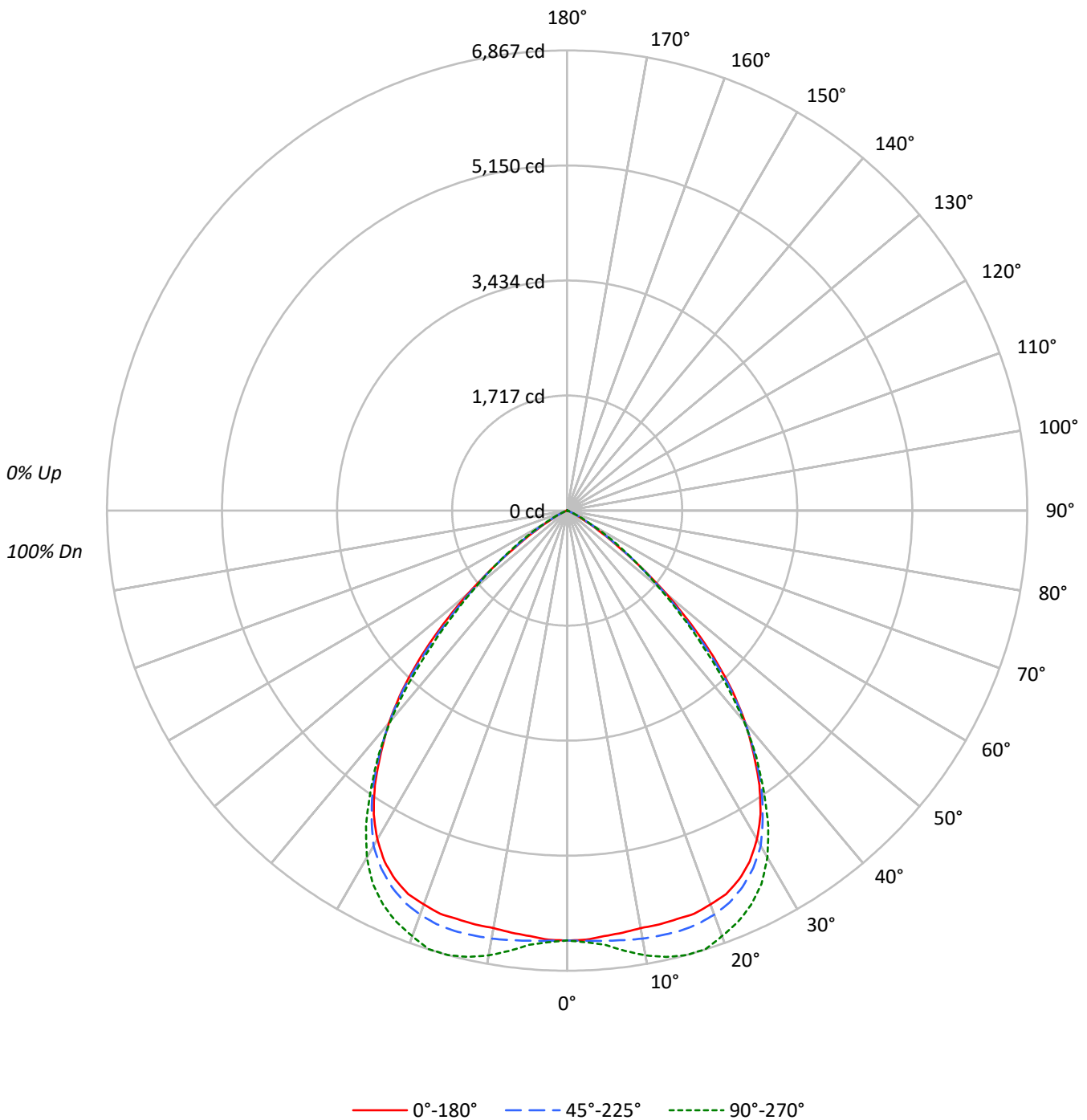
Input Watts (W): 118.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	95	94	93	91					91			
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	86	84	82					82			
3	98	90	84	79	96	89	83	79	86	81	77	84	80	76	81	78	75	73					73			
4	92	82	76	70	90	81	75	70	79	73	69	77	72	68	75	71	67	66					66			
5	86	75	68	63	84	74	68	63	72	67	62	71	65	61	69	64	61	59					59			
6	80	69	62	57	78	68	61	56	67	60	56	65	60	55	64	59	55	53					53			
7	75	64	56	51	73	63	56	51	61	55	51	60	55	50	59	54	50	48					48			
8	70	59	51	46	69	58	51	46	57	51	46	56	50	46	55	49	46	44					44			
9	66	54	47	42	65	54	47	42	53	47	42	52	46	42	51	46	42	40					40			
10	62	50	44	39	61	50	43	39	49	43	39	48	43	39	47	42	38	37					37			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	197833	197833	197833
5°	197308	199484	201350
10°	198092	203090	211034
15°	201524	207341	219210
20°	205253	210573	221786
25°	206618	210807	220891
30°	201733	205760	212739
35°	188308	190246	192516
40°	166523	166370	165106
45°	134656	130823	125071
50°	92506	88951	86058
55°	47611	50654	54235
60°	19834	23473	26340
65°	7698	8157	9624
70°	2038	1929	2606
75°	894	1644	1501
80°	1332	1563	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	617.3	5.2
10°-20°	1848.3	15.6
20°-30°	2860.1	24.2
30°-40°	3132.6	26.5
40°-50°	2291.8	19.4
50°-60°	899.2	7.6
60°-70°	145.5	1.2
70°-80°	13.4	0.1
80°-90°	2.7	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°	5325.7	45.1
0°-40°	8458.3	71.6
0°-60°	11649.3	98.6
0°-90°	11811.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11811.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6416	6416	6416	6416	6416	
5°	6374	6389	6444	6491	6505	607
15°	6313	6354	6495	6736	6867	1788
25°	6073	6092	6196	6383	6492	2784
35°	5002	5011	5054	5102	5114	3097
45°	3088	3083	3000	2908	2868	2351
55°	886	904	942	976	1009	871
65°	106	103	112	123	132	128
75°	8	11	14	10	13	13
85°	0	0	0	0	0	4
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6415.6	6415.6	6415.6	6415.6	6415.6
2.5°	6409.3	6413.1	6425.7	6438.2	6445.8
5°	6374.2	6389.2	6444.5	6491.0	6504.8
7.5°	6352.8	6377.9	6464.6	6581.4	6626.7
10°	6326.4	6362.8	6486.0	6651.8	6739.7
12.5°	6327.7	6362.8	6493.5	6709.6	6822.6
15°	6312.6	6354.1	6494.8	6735.9	6866.6
17.5°	6308.8	6328.9	6472.1	6717.1	6861.6
20°	6254.8	6282.4	6416.9	6634.2	6758.6
22.5°	6195.8	6208.3	6331.4	6545.0	6650.5
25°	6072.7	6091.5	6195.8	6382.9	6492.2
27.5°	5903.1	5906.8	6012.4	6185.7	6281.2
30°	5665.6	5684.5	5778.7	5906.8	5974.7
32.5°	5371.7	5369.2	5430.7	5542.5	5586.5
35°	5002.3	5011.1	5053.8	5101.6	5114.1
37.5°	4568.9	4580.2	4609.1	4625.5	4636.8
40°	4136.8	4136.8	4133.0	4115.4	4101.6
42.5°	3644.3	3628.0	3609.2	3531.3	3497.4
45°	3087.8	3082.8	2999.9	2908.2	2868.0
47.5°	2502.4	2474.8	2388.1	2314.0	2297.7
50°	1928.3	1899.4	1854.2	1817.8	1793.9
52.5°	1374.3	1353.0	1371.8	1371.8	1369.3
55°	885.6	904.5	942.2	976.1	1008.8
57.5°	561.5	586.7	644.5	688.4	699.7
60°	321.6	340.4	380.6	419.6	427.1
62.5°	202.3	203.5	229.9	252.5	266.3
65°	105.5	103.0	111.8	123.1	131.9
67.5°	44.0	44.0	52.8	51.5	65.3
70°	22.6	18.8	21.4	25.1	28.9
72.5°	16.3	12.6	17.6	22.6	10.0
75°	7.5	11.3	13.8	10.0	12.6
77.5°	10.0	10.0	7.5	12.6	2.5
80°	7.5	5.0	8.8	3.8	0.0
82.5°	1.3	2.5	1.3	1.3	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	8.8	3.8	6.3	5.0	7.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)