

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: P247221

Luminaire Tested: **LSR8B120D010 EC8B120935 8LBS0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247221
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-83)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B120D010 EC8B120935 8LBS0H
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 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: 11505.0 lumens
Efficiency: N/A
Efficacy: 97.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.22 / 1.23
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

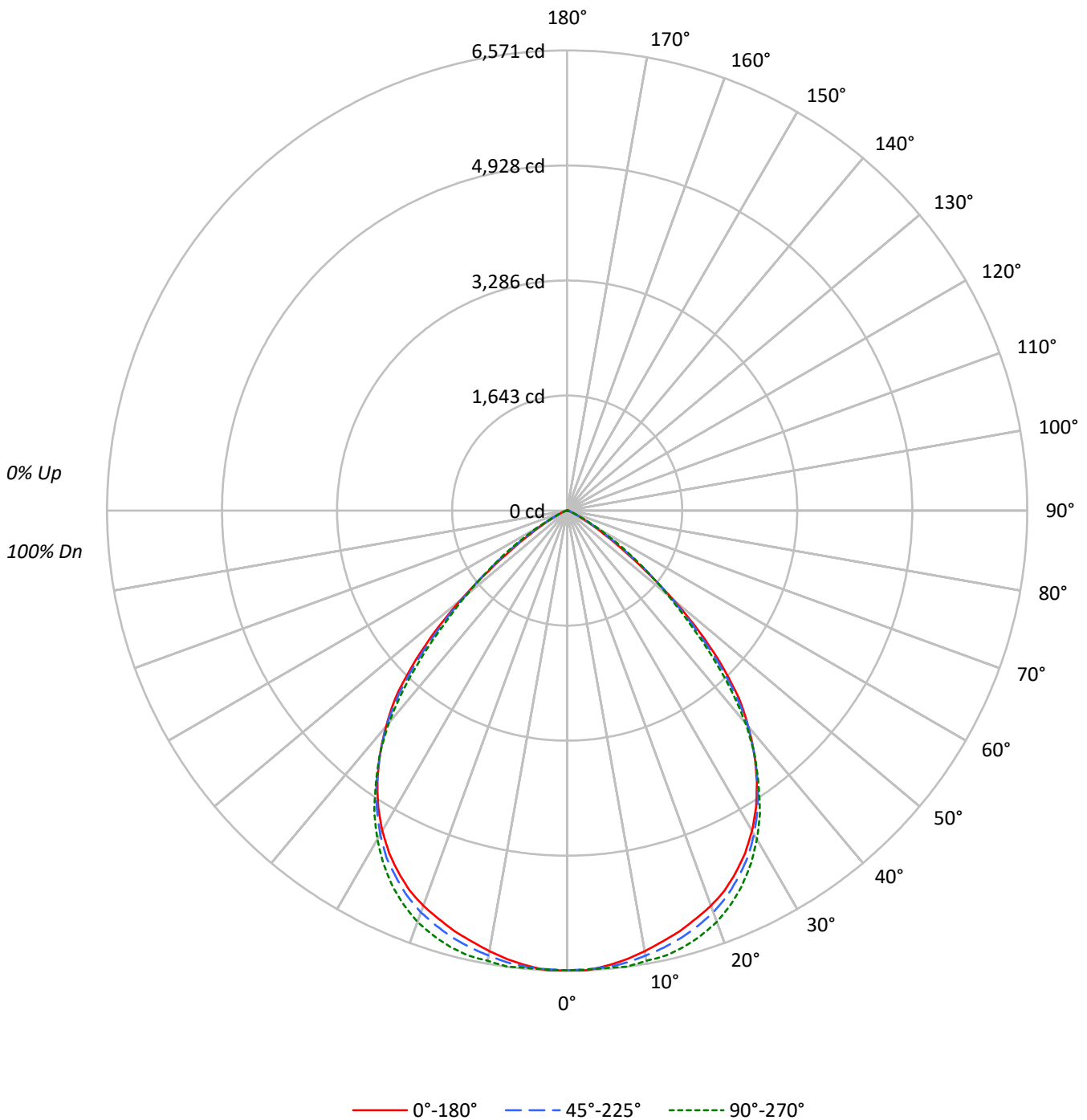
Input Watts (W): 118.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	102	103	100	98	99	97	95	95	94	93	91
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	85	83	81
3	98	90	84	79	96	88	83	78	86	81	77	83	79	76	81	77	74	73
4	91	82	75	70	89	81	74	69	78	73	68	76	71	68	74	70	67	65
5	85	75	68	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58
6	79	69	61	56	78	68	61	56	66	60	55	64	59	55	63	58	54	53
7	74	63	56	50	73	62	55	50	61	55	50	60	54	50	58	53	49	48
8	70	58	51	46	68	57	51	46	56	50	45	55	49	45	54	49	45	43
9	65	54	47	42	64	53	46	42	52	46	42	51	46	41	50	45	41	40
10	62	50	43	38	60	50	43	38	49	42	38	48	42	38	47	42	38	36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	202462	202462	202462
5°	201951	202533	202963
10°	200037	202044	204405
15°	198453	201582	205914
20°	197066	200324	205148
25°	193982	196673	201035
30°	187975	190033	192939
35°	177778	178584	179247
40°	161934	161781	159607
45°	136148	132040	126340
50°	94564	92453	89983
55°	50590	55928	59234
60°	24484	27814	31379
65°	10726	10813	11273
70°	5779	5319	5211
75°	5087	4635	3288
80°	231	888	0
85°	460	460	2229



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	622.0	5.4
10°-20°	1783.7	15.5
20°-30°	2661.4	23.1
30°-40°	2947.5	25.6
40°-50°	2298.6	20.0
50°-60°	963.5	8.4
60°-70°	193.0	1.7
70°-80°	30.7	0.3
80°-90°	4.8	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°	5067.0	44.0
0°-40°	8014.4	69.7
0°-60°	11276.5	98.0
0°-90°	11505.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11505.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6566	6566	6566	6566	6566	
5°	6524	6529	6543	6561	6557	618
15°	6216	6244	6314	6407	6450	1754
25°	5701	5724	5780	5870	5909	2620
35°	4723	4715	4744	4767	4762	2935
45°	3122	3108	3028	2935	2897	2362
55°	941	977	1040	1082	1102	917
65°	147	147	148	160	154	177
75°	43	39	39	30	28	35
85°	1	2	1	0	6	5
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6565.7	6565.7	6565.7	6565.7	6565.7
2.5°	6570.7	6558.1	6555.6	6563.1	6558.1
5°	6524.2	6529.2	6543.0	6560.6	6556.9
7.5°	6463.9	6472.7	6510.4	6555.6	6566.9
10°	6388.5	6407.4	6452.6	6504.1	6528.0
12.5°	6300.6	6325.7	6391.0	6465.2	6509.1
15°	6216.4	6244.0	6314.4	6407.4	6450.1
17.5°	6110.9	6147.3	6216.4	6316.9	6360.9
20°	6005.3	6038.0	6104.6	6202.6	6251.6
22.5°	5874.7	5898.5	5961.4	6044.3	6094.5
25°	5701.3	5723.9	5780.4	5869.6	5908.6
27.5°	5507.8	5534.2	5585.7	5647.3	5682.5
30°	5279.2	5300.5	5337.0	5392.2	5418.6
32.5°	5021.6	5022.9	5059.3	5100.8	5124.6
35°	4722.6	4715.1	4744.0	4766.6	4761.6
37.5°	4392.2	4393.4	4390.9	4393.4	4398.5
40°	4022.8	4005.2	4019.0	3987.6	3965.0
42.5°	3630.8	3613.3	3559.2	3490.1	3452.4
45°	3122.0	3108.2	3027.8	2934.8	2897.1
47.5°	2562.9	2520.2	2454.9	2375.7	2339.3
50°	1971.2	1966.2	1927.2	1908.4	1875.7
52.5°	1409.6	1409.6	1457.4	1449.8	1448.6
55°	941.0	977.4	1040.3	1081.7	1101.8
57.5°	613.1	647.0	699.8	743.8	763.9
60°	397.0	413.3	451.0	484.9	508.8
62.5°	246.2	260.1	280.2	301.5	310.3
65°	147.0	147.0	148.2	159.6	154.5
67.5°	99.3	103.0	98.0	98.0	110.6
70°	64.1	60.3	59.0	57.8	57.8
72.5°	41.5	35.2	37.7	40.2	35.2
75°	42.7	38.9	38.9	30.2	27.6
77.5°	15.1	16.3	11.3	8.8	7.5
80°	1.3	5.0	5.0	1.3	0.0
82.5°	15.1	13.8	11.3	17.6	11.3
85°	1.3	2.5	1.3	0.0	6.3
87.5°	0.0	0.0	0.0	1.3	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)