

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: P247461

Luminaire Tested: **LSR8B120D010 EC8B120935 8LBS0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247461
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-85)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B120D010 EC8B120935 8LBS0WH
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
90 CRI 3500 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11723.0 lumens
Efficiency: N/A
Efficacy: 99.1 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.29 / 1.24
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

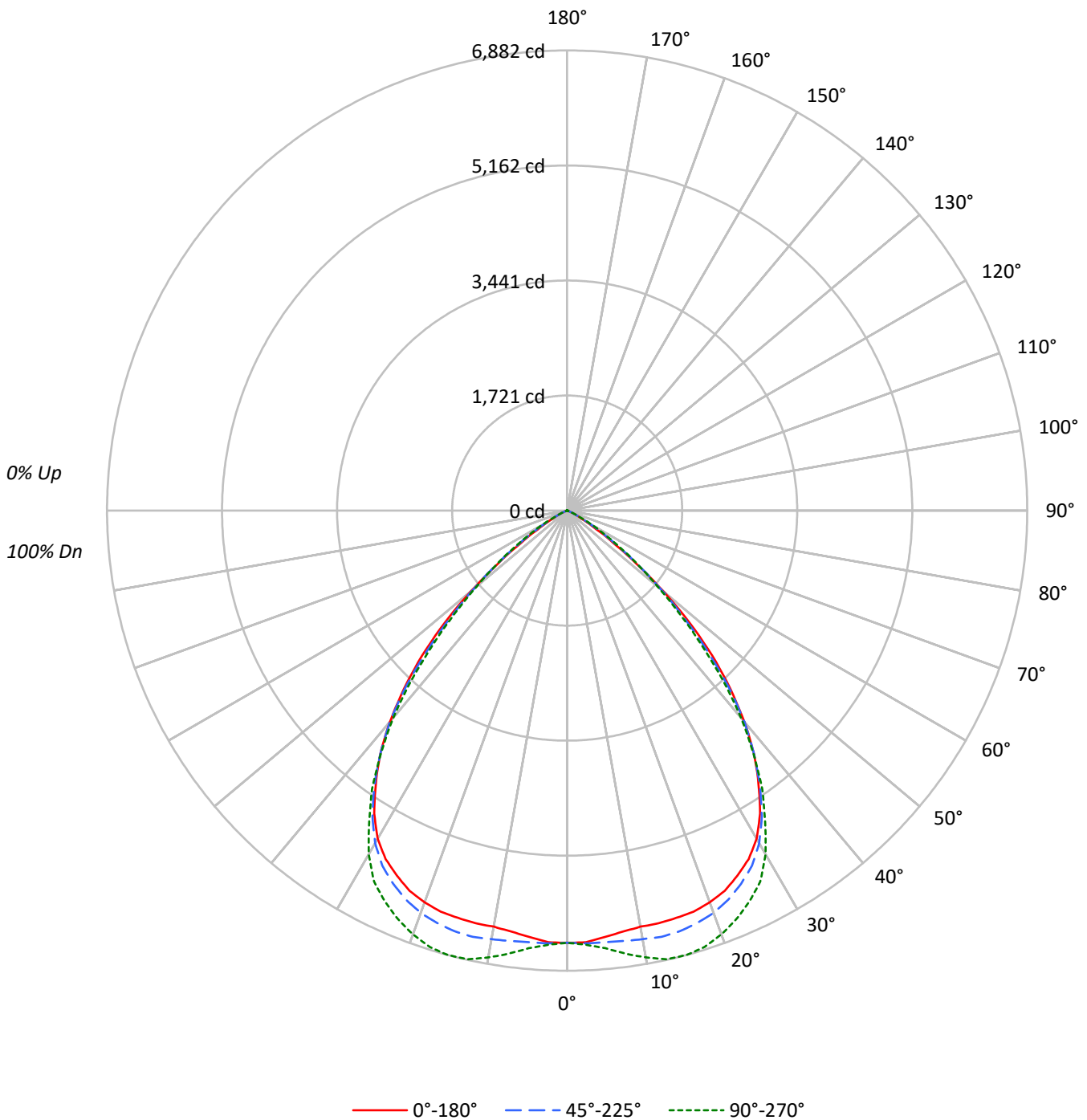
Input Watts (W): 118.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	101	99	99	97	96	96	94	93	91
2	105	99	94	90	103	98	93	89	94	91	87	91	88	85	88	86	84	82
3	98	90	84	80	96	89	83	79	86	82	78	84	80	76	81	78	75	73
4	92	83	76	71	90	81	75	70	79	74	69	77	72	68	75	71	68	66
5	86	75	68	63	84	74	68	63	73	67	62	71	66	62	69	65	61	59
6	80	69	62	57	78	68	62	57	67	61	56	65	60	56	64	59	55	54
7	75	64	56	51	73	63	56	51	62	55	51	60	55	51	59	54	50	49
8	70	59	52	47	69	58	51	47	57	51	46	56	50	46	55	50	46	44
9	66	54	47	43	65	54	47	43	53	47	42	52	46	42	51	46	42	40
10	62	51	44	39	61	50	44	39	49	43	39	48	43	39	48	42	39	37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	199304	199304	199304
5°	198199	200573	203372
10°	197857	203797	212449
15°	201323	207899	219692
20°	204594	210077	221290
25°	204948	209480	219398
30°	201822	204461	211262
35°	187837	189064	191428
40°	166015	165814	162831
45°	133727	128743	123754
50°	89795	87445	84490
55°	45590	49504	52546
60°	18674	22856	26649
65°	6968	7428	8705
70°	451	451	343
75°	894	1501	1942
80°	231	0	0
85°	885	0	885



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	620.7	5.3
10°-20°	1849.6	15.8
20°-30°	2846.3	24.3
30°-40°	3117.4	26.6
40°-50°	2266.7	19.3
50°-60°	872.0	7.4
60°-70°	136.6	1.2
70°-80°	9.8	0.1
80°-90°	4.0	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°	5316.6	45.4
0°-40°	8434.0	71.9
0°-60°	11572.7	98.7
0°-90°	11723.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11723.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6463	6463	6463	6463	6463	
5°	6403	6436	6480	6541	6570	608
15°	6306	6355	6512	6754	6882	1784
25°	6024	6060	6157	6339	6448	2770
35°	4990	4990	5022	5054	5085	3099
45°	3066	3035	2952	2877	2838	2331
55°	848	871	921	951	977	828
65°	96	99	102	116	119	117
75°	8	16	13	16	16	10
85°	2	0	0	0	2	6
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6463.3	6463.3	6463.3	6463.3	6463.3
2.5°	6462.1	6472.1	6478.4	6492.2	6498.5
5°	6403.0	6435.7	6479.7	6541.2	6570.1
7.5°	6351.5	6396.7	6491.0	6624.1	6683.2
10°	6318.9	6367.9	6508.6	6689.4	6784.9
12.5°	6322.6	6376.6	6528.7	6746.0	6874.1
15°	6306.3	6355.3	6512.3	6753.5	6881.7
17.5°	6287.5	6327.7	6467.1	6703.3	6841.5
20°	6234.7	6268.6	6401.8	6615.3	6743.5
22.5°	6155.5	6187.0	6297.5	6496.0	6614.1
25°	6023.6	6060.1	6156.8	6339.0	6448.3
27.5°	5876.7	5898.0	5987.2	6153.0	6257.3
30°	5668.1	5675.7	5742.2	5870.4	5933.2
32.5°	5370.4	5369.1	5419.4	5483.5	5507.3
35°	4989.8	4989.8	5022.4	5053.8	5085.2
37.5°	4594.0	4589.0	4592.8	4600.3	4573.9
40°	4124.2	4114.2	4119.2	4074.0	4045.1
42.5°	3609.2	3618.0	3567.7	3487.3	3457.2
45°	3066.5	3035.1	2952.2	2876.8	2837.8
47.5°	2489.9	2440.9	2361.7	2283.8	2277.6
50°	1871.8	1874.3	1822.8	1778.8	1761.2
52.5°	1298.9	1312.8	1339.1	1344.2	1350.5
55°	848.0	870.6	920.8	951.0	977.4
57.5°	518.8	560.3	603.0	659.5	664.5
60°	302.8	322.9	370.6	413.3	432.1
62.5°	170.8	189.7	199.7	224.9	231.1
65°	95.5	99.2	101.8	115.6	119.3
67.5°	57.8	60.3	62.8	61.6	64.1
70°	5.0	11.3	5.0	6.3	3.8
72.5°	21.4	13.8	15.1	11.3	7.5
75°	7.5	16.3	12.6	16.3	16.3
77.5°	5.0	3.8	6.3	7.5	6.3
80°	1.3	0.0	0.0	0.0	0.0
82.5°	11.3	10.0	6.3	10.0	3.8
85°	2.5	0.0	0.0	0.0	2.5
87.5°	7.5	3.8	3.8	8.8	2.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)