

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: P247469

Luminaire Tested: **LSR8B120D010 EC8B120950 8LBS0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247469
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 EC8B120950 8LBS0WH
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
90 CRI 5000 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12677.0 lumens
Efficiency: N/A
Efficacy: 107.2 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

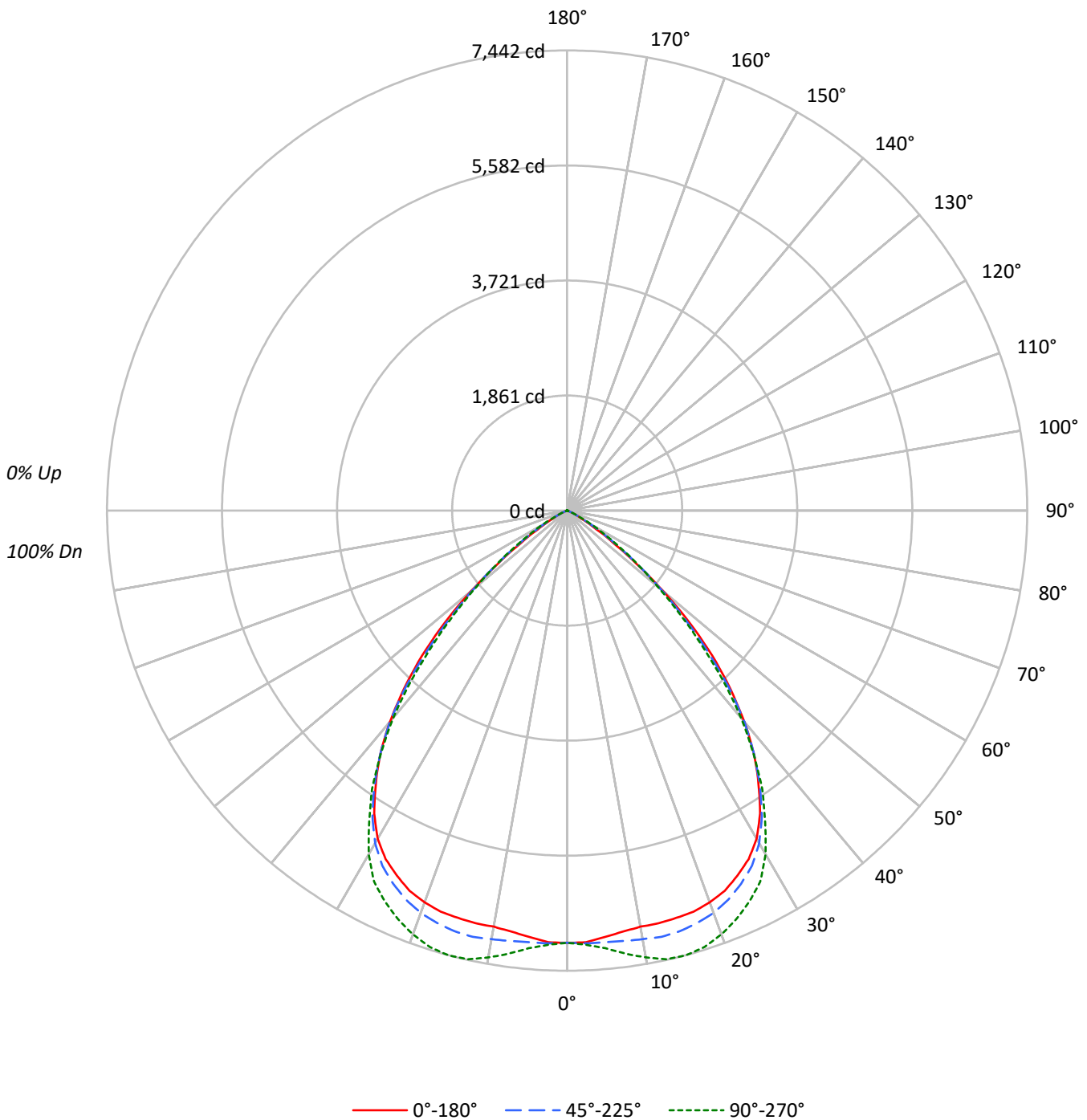
Input Watts (W): 118.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	215524	215524	215524
5°	214329	216895	219923
10°	213958	220380	229739
15°	217706	224819	237570
20°	221244	227171	239296
25°	221626	226526	237250
30°	218248	221100	228453
35°	203121	204449	207009
40°	179525	179307	176083
45°	144608	139218	133828
50°	97102	94559	91369
55°	49299	53536	56821
60°	20192	24712	28820
65°	7530	8026	9420
70°	487	487	370
75°	977	1620	2109
80°	249	0	0
85°	955	0	955



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	671.2	5.3
10°-20°	2000.2	15.8
20°-30°	3077.9	24.3
30°-40°	3371.1	26.6
40°-50°	2451.2	19.3
50°-60°	942.9	7.4
60°-70°	147.7	1.2
70°-80°	10.6	0.1
80°-90°	4.3	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°	5749.2	45.4
0°-40°	9120.3	71.9
0°-60°	12514.4	98.7
0°-90°	12677.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12677.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6989	6989	6989	6989	6989	
5°	6924	6959	7007	7074	7105	658
15°	6820	6872	7042	7303	7442	1929
25°	6514	6553	6658	6855	6973	2996
35°	5396	5396	5431	5465	5499	3351
45°	3316	3282	3192	3111	3069	2521
55°	917	941	996	1028	1057	896
65°	103	107	110	125	129	126
75°	8	18	14	18	18	11
85°	3	0	0	0	3	6
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6989.3	6989.3	6989.3	6989.3	6989.3
2.5°	6987.9	6998.8	7005.6	7020.5	7027.3
5°	6924.1	6959.4	7007.0	7073.5	7104.8
7.5°	6868.4	6917.3	7019.2	7163.2	7227.0
10°	6833.1	6886.1	7038.2	7233.8	7337.1
12.5°	6837.2	6895.6	7059.9	7295.0	7433.5
15°	6819.5	6872.5	7042.3	7303.1	7441.7
17.5°	6799.1	6842.6	6993.4	7248.8	7398.2
20°	6742.1	6778.7	6922.7	7153.7	7292.2
22.5°	6656.5	6690.4	6810.0	7024.6	7152.3
25°	6513.8	6553.2	6657.8	6854.8	6973.0
27.5°	6354.9	6378.0	6474.4	6653.8	6766.5
30°	6129.4	6137.5	6209.5	6348.1	6416.0
32.5°	5807.4	5806.1	5860.4	5929.7	5955.5
35°	5395.8	5395.8	5431.1	5465.1	5499.1
37.5°	4967.9	4962.5	4966.5	4974.7	4946.2
40°	4459.8	4449.0	4454.4	4405.5	4374.3
42.5°	3902.9	3912.4	3858.0	3771.1	3738.5
45°	3316.0	3282.1	3192.4	3110.9	3068.8
47.5°	2692.5	2639.5	2553.9	2469.7	2462.9
50°	2024.1	2026.8	1971.1	1923.6	1904.6
52.5°	1404.7	1419.6	1448.1	1453.6	1460.3
55°	917.0	941.4	995.8	1028.4	1056.9
57.5°	561.0	605.9	652.1	713.2	718.6
60°	327.4	349.1	400.7	446.9	467.3
62.5°	184.8	205.1	216.0	243.2	250.0
65°	103.2	107.3	110.0	125.0	129.1
67.5°	62.5	65.2	67.9	66.6	69.3
70°	5.4	12.2	5.4	6.8	4.1
72.5°	23.1	14.9	16.3	12.2	8.2
75°	8.2	17.7	13.6	17.7	17.7
77.5°	5.4	4.1	6.8	8.2	6.8
80°	1.4	0.0	0.0	0.0	0.0
82.5°	12.2	10.9	6.8	10.9	4.1
85°	2.7	0.0	0.0	0.0	2.7
87.5°	8.2	4.1	4.1	9.5	2.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)