

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: P247673

Luminaire Tested: **LSR8B120D010 EC8B120827 8LBW0MW**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247673
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-63)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B120D010 EC8B120827 8LBW0MW
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 2700 CCT WITH MATTE WHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11963.0 lumens
Efficiency: N/A
Efficacy: 101.1 lumens/watt
Spacing Criteria (0/90/45): 1.12 / 1.09 / 1.05
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

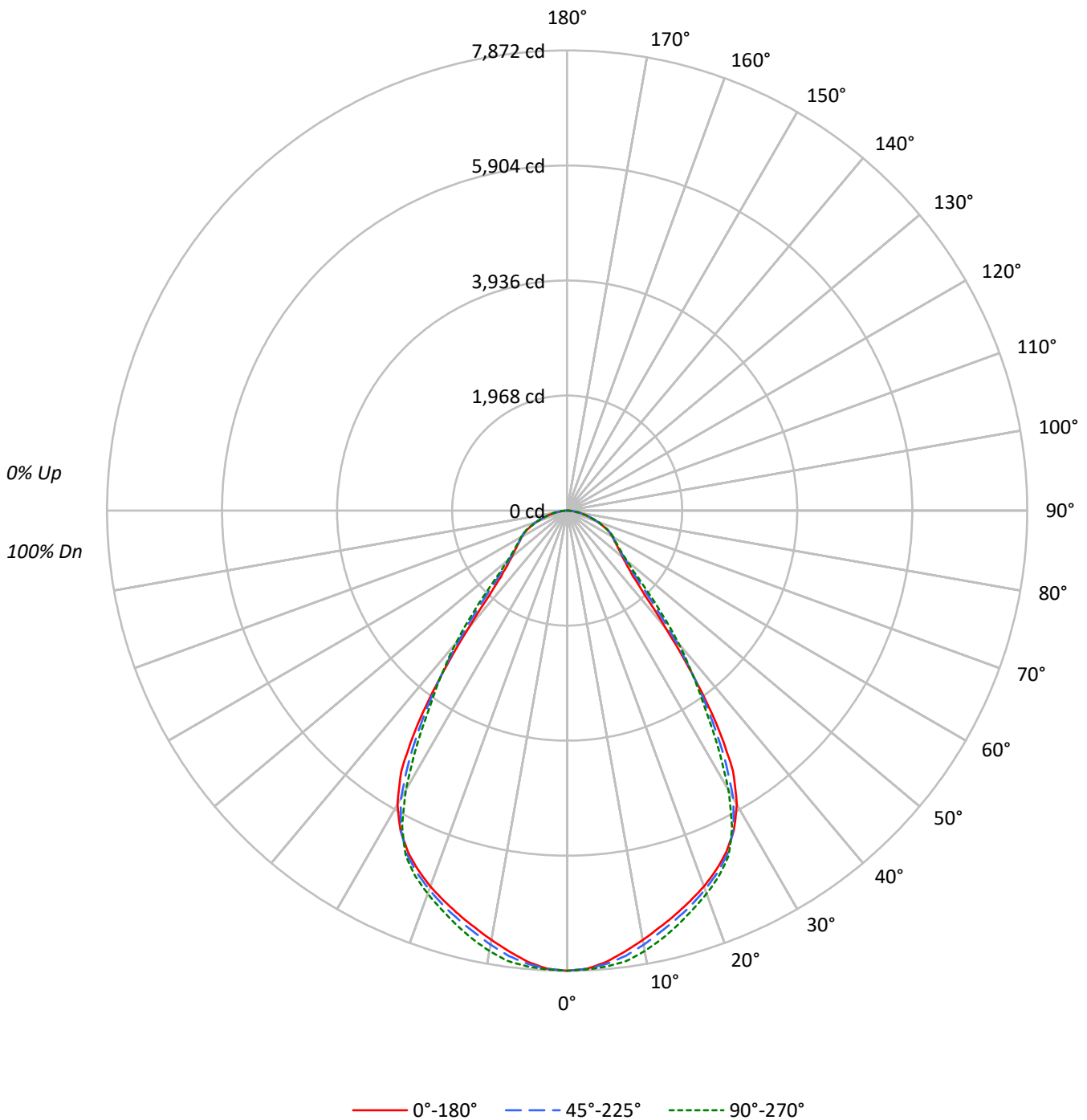
Input Watts (W): 118.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	111	107	104	101	109	105	102	99	101	99	96	97	95	93	94	92	91	89					89			
2	103	97	91	87	101	95	90	86	92	88	84	89	85	82	86	83	80	78					78			
3	96	88	81	76	94	86	80	75	84	78	74	81	77	73	79	75	72	70					70			
4	90	80	73	67	88	79	72	67	76	71	66	74	69	65	72	68	64	63					63			
5	84	73	66	60	82	72	65	60	70	64	59	68	63	59	67	62	58	57					57			
6	79	67	60	55	77	67	60	54	65	59	54	63	58	54	62	57	53	51					51			
7	74	62	55	50	72	62	55	50	60	54	49	59	53	49	58	53	49	47					47			
8	69	58	51	46	68	57	50	45	56	50	45	55	49	45	54	49	45	43					43			
9	66	54	47	42	64	53	47	42	52	46	42	51	46	42	50	45	41	40					40			
10	62	50	43	39	61	50	43	39	49	43	39	48	42	38	47	42	38	37					37			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	242759	242759	242759
5°	239792	240947	242318
10°	233522	236118	239581
15°	228423	230850	234160
20°	224503	226409	228903
25°	219231	220595	222052
30°	206693	202264	196307
35°	167791	160248	154108
40°	104930	113886	119393
45°	69914	76486	82997
50°	59606	61396	63521
55°	55729	56471	57288
60°	55234	55573	56085
65°	53848	54454	54862
70°	48848	49218	49597
75°	42653	43141	43308
80°	36333	36333	37309
85°	29331	29331	29331



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	735.6	6.1
10°-20°	2041.0	17.1
20°-30°	2950.6	24.7
30°-40°	2640.6	22.1
40°-50°	1429.0	11.9
50°-60°	952.4	8.0
60°-70°	729.4	6.1
70°-80°	386.6	3.2
80°-90°	97.8	0.8
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°	5727.2	47.9
0°-40°	8367.8	69.9
0°-60°	10749.3	89.9
0°-90°	11963.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11963.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7872	7872	7872	7872	7872	
5°	7747	7751	7784	7814	7828	730
15°	7155	7169	7231	7302	7335	2019
25°	6443	6459	6484	6514	6526	2948
35°	4457	4412	4257	4134	4094	2698
45°	1603	1650	1754	1863	1903	1319
55°	1037	1041	1050	1062	1066	938
65°	738	741	746	752	752	723
75°	358	358	362	364	364	384
85°	83	83	83	84	83	98
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	7872.5	7872.5	7872.5	7872.5	7872.5
2.5°	7846.2	7843.5	7844.9	7853.1	7857.3
5°	7746.7	7750.9	7784.0	7814.4	7828.3
7.5°	7607.1	7625.1	7681.8	7741.2	7771.6
10°	7457.9	7475.8	7540.8	7625.1	7651.4
12.5°	7304.4	7326.6	7384.6	7470.3	7502.1
15°	7155.2	7169.0	7231.2	7301.7	7334.9
17.5°	7001.8	7015.6	7072.3	7127.5	7153.8
20°	6841.4	6856.6	6899.5	6946.5	6975.5
22.5°	6657.6	6672.8	6708.8	6750.2	6776.5
25°	6443.4	6458.6	6483.5	6513.9	6526.3
27.5°	6172.5	6182.2	6158.7	6133.8	6111.7
30°	5804.9	5774.5	5680.5	5560.2	5513.2
32.5°	5282.4	5184.3	5003.2	4856.7	4802.8
35°	4457.3	4411.7	4256.9	4133.9	4093.8
37.5°	3495.4	3525.8	3514.7	3506.4	3514.7
40°	2606.7	2677.1	2829.2	2932.8	2966.0
42.5°	1973.7	2041.4	2212.8	2356.5	2406.3
45°	1603.2	1650.2	1753.9	1863.1	1903.2
47.5°	1383.5	1409.8	1462.3	1520.3	1539.7
50°	1242.5	1253.6	1279.8	1313.0	1324.1
52.5°	1130.6	1136.1	1151.3	1169.3	1172.0
55°	1036.6	1040.7	1050.4	1061.5	1065.6
57.5°	957.8	961.9	964.7	971.6	974.4
60°	895.6	895.6	901.1	906.7	909.4
62.5°	827.9	827.9	833.4	838.9	838.9
65°	738.0	740.8	746.3	751.9	751.9
67.5°	639.9	641.3	645.4	651.0	649.6
70°	541.8	541.8	545.9	548.7	550.1
72.5°	447.8	446.4	453.3	454.7	450.6
75°	358.0	358.0	362.1	363.5	363.5
77.5°	279.2	277.8	277.8	279.2	280.6
80°	204.6	205.9	204.6	207.3	210.1
82.5°	142.4	141.0	141.0	141.0	139.6
85°	82.9	82.9	82.9	84.3	82.9
87.5°	33.2	33.2	31.8	31.8	30.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)