

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: P247429

Luminaire Tested: **LSR8B120D010 EC8B120930 8LBW0WH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247429  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13927)  
Test Lab: INNOVATION CENTER-P1  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSR8B120D010 EC8B120930 8LBW0WH  
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
97 CRI 3000 CCT WITH WHEAT TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10584.5 lumens  
Efficiency: N/A  
Efficacy: 89.5 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.24 / 1.12  
Luminous Opening: Point Source (0' x 0' x 0')  
CIE Type: Direct

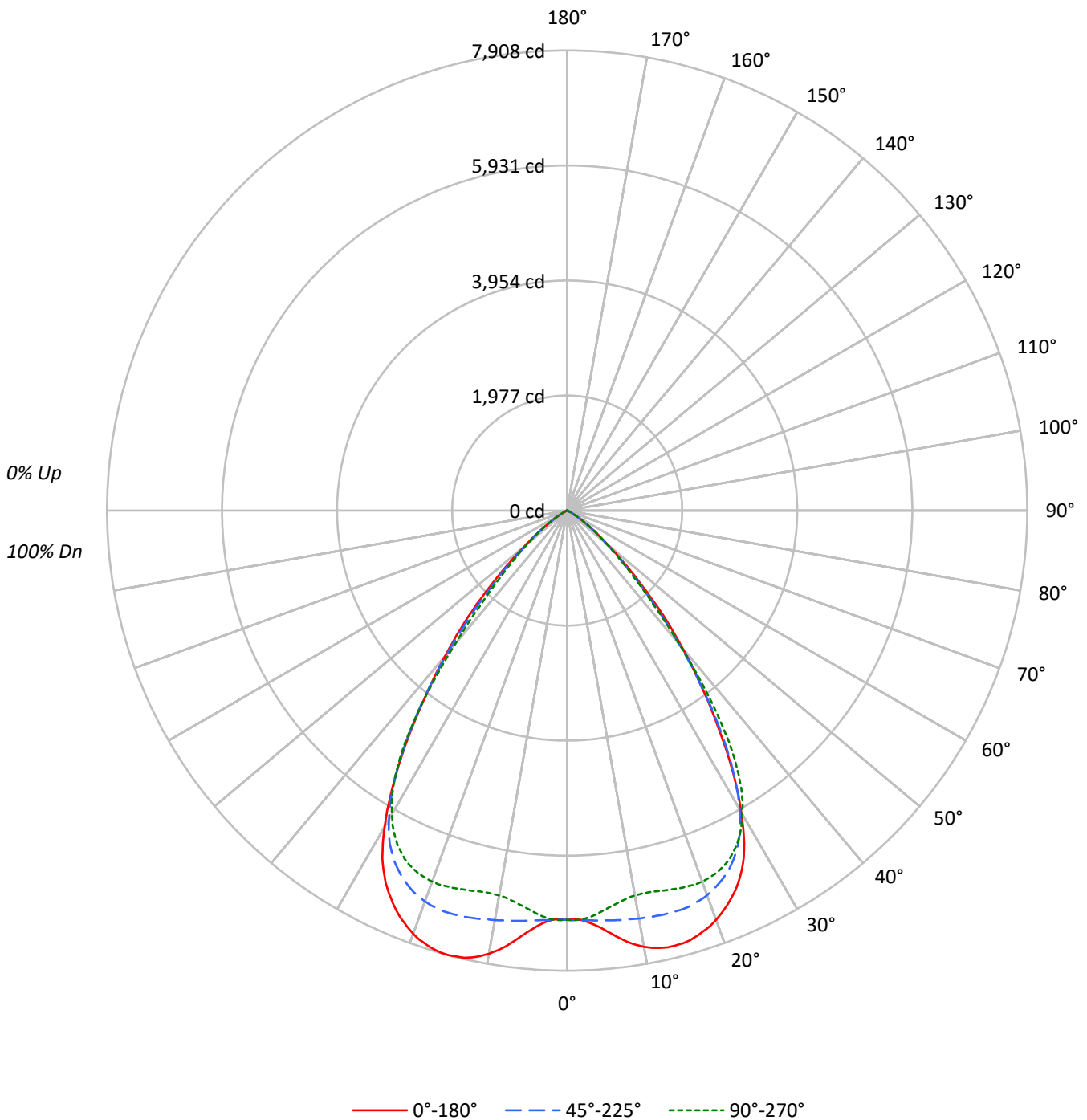
Input Watts (W): 118.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	113	110	107	105	110	108	105	103	104	102	100	100	98	97	96	95	94	92
2	106	101	96	93	104	99	95	92	96	92	90	93	90	88	90	88	86	84
3	100	93	87	83	98	91	86	82	89	84	81	86	83	79	84	81	78	76
4	94	85	79	74	92	84	79	74	82	77	73	80	76	72	78	74	71	70
5	88	79	72	67	87	78	72	67	76	71	67	74	70	66	73	69	65	64
6	83	73	66	61	81	72	66	61	71	65	61	69	64	60	68	63	60	58
7	78	68	61	56	77	67	61	56	66	60	56	64	59	55	63	59	55	53
8	74	63	56	52	72	62	56	51	61	55	51	60	55	51	59	54	51	49
9	70	59	52	48	68	58	52	48	57	51	47	56	51	47	55	50	47	45
10	66	55	48	44	65	54	48	44	54	48	44	53	47	44	52	47	44	42

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°
0°	Luminaire represents a point source (luminous area is zero).		
5°	No luminance values can be calculated.		
10°			
15°			
20°			
25°			
30°			
35°			
40°			
45°			
50°			
55°			
60°			
65°			
70°			
75°			
80°			
85°			



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	678.1	6.4
10°-20°	2040.3	19.3
20°-30°	3105.5	29.3
30°-40°	2890.0	27.3
40°-50°	1406.6	13.3
50°-60°	400.8	3.8
60°-70°	52.4	0.5
70°-80°	8.3	0.1
80°-90°	2.5	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°	5823.9	55.0
0°-40°	8714.0	82.3
0°-60°	10521.3	99.4
0°-90°	10584.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10584.5	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	7036	7036	7036	7036	7036	
5°	7224	7065	6910	7071	7236	704
15°	7696	7137	6749	7206	7908	2165
25°	7000	6695	6605	6841	7251	3177
35°	4510	4573	4848	4797	4761	2804
45°	1817	1683	1620	1814	1976	1436
55°	409	409	424	415	409	402
65°	27	33	36	33	30	51
75°	0	3	9	3	0	5
85°	0	3	3	6	0	1
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	7035.5	7035.5	7035.5	7035.5	7035.5	7035.5	7035.5	7035.5	7035.5
1°	7026.5	7035.5	7041.6	7038.5	7041.6	7038.5	7032.6	7020.6	7020.6
2°	7038.5	7050.5	7047.4	7041.6	7032.6	7032.6	7050.5	7026.5	7032.6
3°	7086.3	7086.3	7050.5	7017.7	7005.6	7017.7	7047.4	7065.4	7080.5
4°	7146.2	7134.2	7062.4	6987.8	6963.8	6993.7	7059.5	7116.2	7146.2
5°	7223.8	7188.0	7065.4	6951.9	6910.1	6954.8	7071.4	7179.0	7235.8
6°	7313.5	7259.6	7083.4	6913.0	6859.2	6922.0	7089.4	7253.8	7340.3
7°	7403.2	7316.4	7092.3	6883.1	6814.3	6901.1	7104.2	7337.4	7451.0
8°	7486.8	7370.2	7101.3	6856.3	6772.5	6862.2	7116.2	7412.1	7561.6
9°	7555.7	7421.0	7107.3	6835.3	6736.6	6838.3	7131.2	7477.9	7654.2
10°	7612.4	7459.9	7119.2	6823.3	6715.8	6826.3	7146.2	7534.7	7731.9
11°	7657.2	7486.8	7122.3	6817.4	6706.8	6817.4	7158.0	7591.4	7797.8
12°	7684.1	7510.7	7131.2	6820.4	6709.7	6826.3	7176.0	7615.4	7851.5
13°	7702.1	7519.7	7137.1	6829.4	6715.8	6832.3	7188.0	7636.4	7887.2
14°	7702.1	7513.8	7137.1	6838.3	6733.7	6844.3	7196.9	7651.3	7896.3
15°	7696.1	7510.7	7137.1	6853.2	6748.6	6856.3	7205.9	7660.2	7908.2
16°	7678.2	7492.8	7134.2	6862.2	6763.6	6868.1	7208.8	7654.2	7899.4
17°	7642.2	7483.9	7122.3	6871.2	6778.5	6880.1	7208.8	7639.3	7878.3
18°	7594.4	7421.0	7092.3	6862.2	6781.5	6877.2	7191.0	7600.4	7839.6
19°	7552.5	7385.3	7071.4	6856.3	6793.4	6886.2	7179.0	7573.5	7797.8
20°	7486.8	7325.5	7035.5	6838.3	6784.5	6868.1	7149.2	7525.7	7741.0
21°	7406.1	7256.7	6984.7	6808.4	6769.5	6844.3	7107.3	7459.9	7663.2
22°	7325.5	7179.0	6930.9	6778.5	6745.6	6823.3	7062.4	7391.2	7582.4
23°	7229.8	7092.3	6862.2	6727.7	6709.7	6775.5	6999.7	7316.4	7486.8
24°	7122.3	6990.8	6787.5	6670.8	6665.0	6724.8	6928.0	7217.8	7373.3
25°	6999.7	6883.1	6694.8	6599.1	6605.2	6655.9	6841.2	7107.3	7250.7
26°	6853.2	6745.6	6587.2	6512.6	6521.5	6572.3	6742.6	6978.8	7116.2
27°	6688.8	6590.1	6461.8	6407.9	6431.8	6476.6	6623.1	6838.3	6948.9
28°	6482.6	6404.9	6312.2	6288.4	6318.3	6369.1	6491.6	6667.9	6766.6
29°	6243.5	6201.7	6130.0	6141.8	6183.7	6225.6	6327.1	6455.7	6533.4
30°	5986.5	5968.5	5926.7	5974.6	6022.3	6058.2	6127.0	6213.6	6273.5
31°	5723.5	5702.6	5708.5	5786.3	5858.0	5881.8	5920.7	5962.5	6007.4
32°	5427.7	5421.6	5445.5	5559.2	5651.7	5663.7	5666.7	5678.6	5702.6
33°	5125.8	5116.8	5164.7	5305.1	5409.7	5418.7	5394.7	5382.7	5400.6
34°	4811.9	4811.9	4874.7	5021.2	5143.7	5152.6	5104.8	5098.8	5080.8
35°	4510.0	4501.0	4572.8	4710.3	4847.8	4850.8	4796.9	4764.0	4761.1
37.5°	3762.9	3748.0	3771.8	3843.5	3945.1	3999.1	3993.0	3981.0	3972.0
40°	3081.4	3045.6	2997.8	2967.8	2997.8	3108.3	3203.9	3248.9	3257.7
42.5°	2438.8	2388.1	2286.4	2202.7	2214.8	2316.3	2462.7	2564.4	2615.2
45°	1817.1	1766.4	1682.6	1620.0	1620.0	1691.7	1814.2	1918.7	1975.5
47.5°	1297.1	1264.3	1216.4	1189.5	1207.4	1237.4	1306.1	1383.9	1407.8
50°	893.7	884.6	857.8	857.8	875.6	899.6	911.6	950.5	959.5
52.5°	624.7	609.7	612.6	615.8	630.6	633.7	651.5	642.6	657.6
55°	409.4	409.4	409.4	418.4	424.4	424.4	415.4	409.4	409.4
57.5°	260.1	254.0	256.9	263.0	263.0	254.0	239.1	236.1	221.2



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
60°	155.4	155.4	158.4	158.4	155.4	146.4	131.5	119.6	113.6
62.5°	80.7	83.6	83.6	98.6	83.6	74.7	68.7	53.8	50.8
65°	26.9	32.8	32.8	32.8	35.9	32.8	32.8	29.9	29.9
67.5°	17.9	21.0	21.0	23.9	23.9	23.9	23.9	29.9	21.0
70°	14.9	14.9	17.9	21.0	21.0	23.9	17.9	14.9	23.9
72.5°	9.0	11.9	9.0	14.9	11.9	11.9	11.9	11.9	11.9
75°	0.0	6.1	2.9	0.0	9.0	6.1	2.9	6.1	0.0
77.5°	2.9	2.9	2.9	2.9	6.1	6.1	6.1	6.1	2.9
80°	2.9	2.9	6.1	2.9	2.9	6.1	0.0	0.0	11.9
82.5°	2.9	2.9	2.9	2.9	2.9	2.9	0.0	2.9	2.9
85°	0.0	2.9	2.9	2.9	2.9	2.9	6.1	6.1	0.0
87.5°	0.0	2.9	0.0	2.9	0.0	0.0	0.0	6.1	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)