

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: P247181

Luminaire Tested: **LSR8B120D010 EC8B120950 8LBW0H**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247181  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-58)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSR8B120D010 EC8B120950 8LBW0H  
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
90 CRI 5000 CCT WITH SEMI-SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11457.0 lumens  
Efficiency: N/A  
Efficacy: 96.8 lumens/watt  
Spacing Criteria (0/90/45): 1.13 / 1.13 / 1.06  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

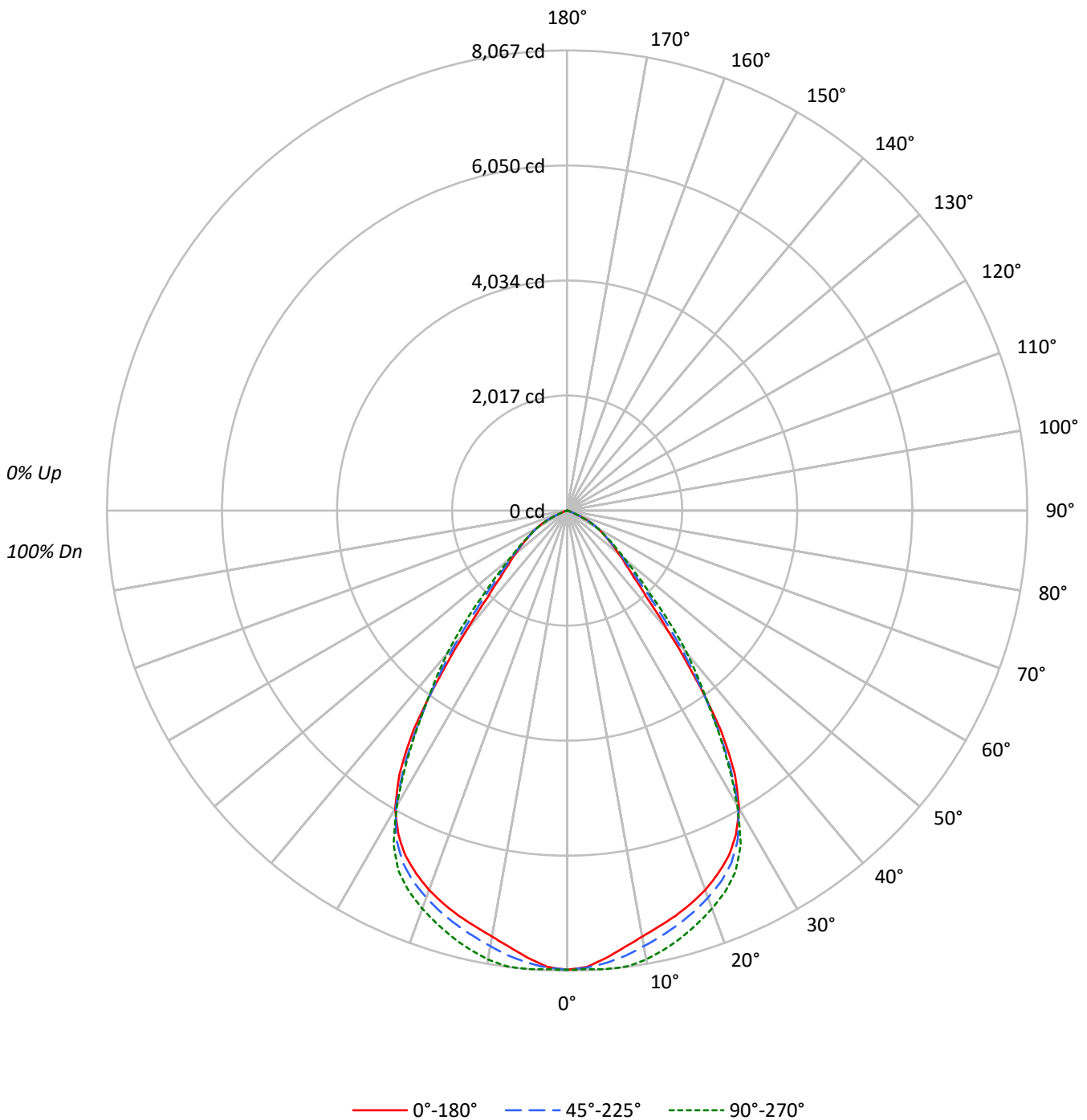
Input Watts (W): 118.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	104	110	107	104	102	103	101	99	99	97	96	96	94	93	91					91			
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	86	84	82					82			
3	99	91	85	81	97	90	84	80	87	82	79	85	81	77	82	79	76	74					74			
4	93	84	77	72	91	82	76	72	80	75	71	78	74	70	76	72	69	67					67			
5	87	77	70	65	85	76	69	65	74	68	64	72	67	63	71	66	63	61					61			
6	81	71	64	59	80	70	64	59	69	63	58	67	62	58	66	61	57	56					56			
7	77	66	59	54	75	65	58	54	64	58	53	62	57	53	61	56	53	51					51			
8	72	61	54	49	71	60	54	49	59	53	49	58	53	49	57	52	49	47					47			
9	68	57	50	45	67	56	50	45	55	49	45	54	49	45	53	48	45	43					43			
10	64	53	47	42	63	53	46	42	52	46	42	51	46	42	50	45	42	40					40			

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

	0°	45°	90°
0°	248205	248205	248205
5°	243643	246293	249697
10°	237398	242803	250161
15°	234712	239871	247332
20°	232257	236940	243716
25°	227686	231799	237624
30°	214673	213704	212398
35°	176585	170498	169527
40°	110574	122002	131900
45°	72156	80450	89159
50°	56896	59630	63540
55°	46375	47181	48643
60°	37953	37700	37534
65°	24582	23889	22597
70°	8448	7835	7231
75°	2919	2752	2585
80°	1208	959	959
85°	495	495	495



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	754.0	6.6
10°-20°	2124.4	18.5
20°-30°	3106.9	27.1
30°-40°	2815.2	24.6
40°-50°	1496.9	13.1
50°-60°	798.9	7.0
60°-70°	325.8	2.8
70°-80°	32.9	0.3
80°-90°	1.9	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°	5985.3	52.2
0°-40°	8800.5	76.8
0°-60°	11096.4	96.9
0°-90°	11457.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11457.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	8049	8049	8049	8049	8049	
5°	7871	7892	7957	8029	8067	742
15°	7352	7394	7514	7669	7748	2074
25°	6692	6720	6813	6930	6984	3058
35°	4691	4626	4529	4495	4503	2819
45°	1655	1704	1845	1992	2044	1353
55°	863	861	878	890	905	782
65°	337	336	327	308	310	336
75°	24	24	23	22	22	35
85°	1	1	1	1	1	2
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	8049.1	8049.1	8049.1	8049.1	8049.1
2.5°	8005.6	8004.2	8019.2	8036.8	8046.3
5°	7871.1	7891.5	7956.7	8028.7	8066.7
7.5°	7718.9	7757.0	7869.7	7993.4	8059.9
10°	7581.7	7630.6	7754.3	7915.9	7989.3
12.5°	7463.6	7511.1	7636.1	7801.8	7882.0
15°	7352.2	7394.3	7513.8	7668.7	7747.5
17.5°	7223.1	7263.9	7379.3	7526.0	7594.0
20°	7077.7	7111.7	7220.4	7357.6	7426.9
22.5°	6897.1	6933.7	7043.8	7170.1	7235.3
25°	6691.9	6720.5	6812.8	6929.7	6984.0
27.5°	6406.6	6432.5	6486.8	6549.3	6590.0
30°	6029.0	6022.2	6001.8	5982.8	5965.1
32.5°	5472.0	5406.8	5307.6	5245.1	5247.9
35°	4690.9	4625.7	4529.2	4495.2	4503.4
37.5°	3665.2	3714.1	3753.5	3818.7	3850.0
40°	2746.9	2831.1	3030.8	3204.7	3276.7
42.5°	2064.9	2147.8	2357.0	2540.4	2639.5
45°	1654.6	1703.5	1844.8	1991.5	2044.5
47.5°	1385.7	1407.4	1488.9	1582.6	1628.8
50°	1186.0	1199.5	1243.0	1294.6	1324.5
52.5°	1016.2	1021.6	1043.3	1073.2	1092.2
55°	862.6	861.3	877.6	889.8	904.8
57.5°	729.5	728.2	728.2	732.2	741.7
60°	615.4	611.3	611.3	605.9	608.6
62.5°	501.3	497.2	487.7	480.9	478.2
65°	336.9	335.5	327.4	308.4	309.7
67.5°	175.2	173.9	165.7	160.3	157.6
70°	93.7	91.0	86.9	82.9	80.2
72.5°	47.5	46.2	44.8	42.1	42.1
75°	24.5	24.5	23.1	21.7	21.7
77.5°	12.2	12.2	10.9	10.9	10.9
80°	6.8	6.8	5.4	5.4	5.4
82.5°	2.7	2.7	2.7	2.7	2.7
85°	1.4	1.4	1.4	1.4	1.4
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)