

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: P247277

Luminaire Tested: **LSR8B120D010 EC8B120950 8LBW0WMH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247277  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-59)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSR8B120D010 EC8B120950 8LBW0WMH  
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
90 CRI 5000 CCT WITH WARM HAZE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11207.0 lumens  
Efficiency: N/A  
Efficacy: 94.7 lumens/watt  
Spacing Criteria (0/90/45): 1.13 / 1.14 / 1.06  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

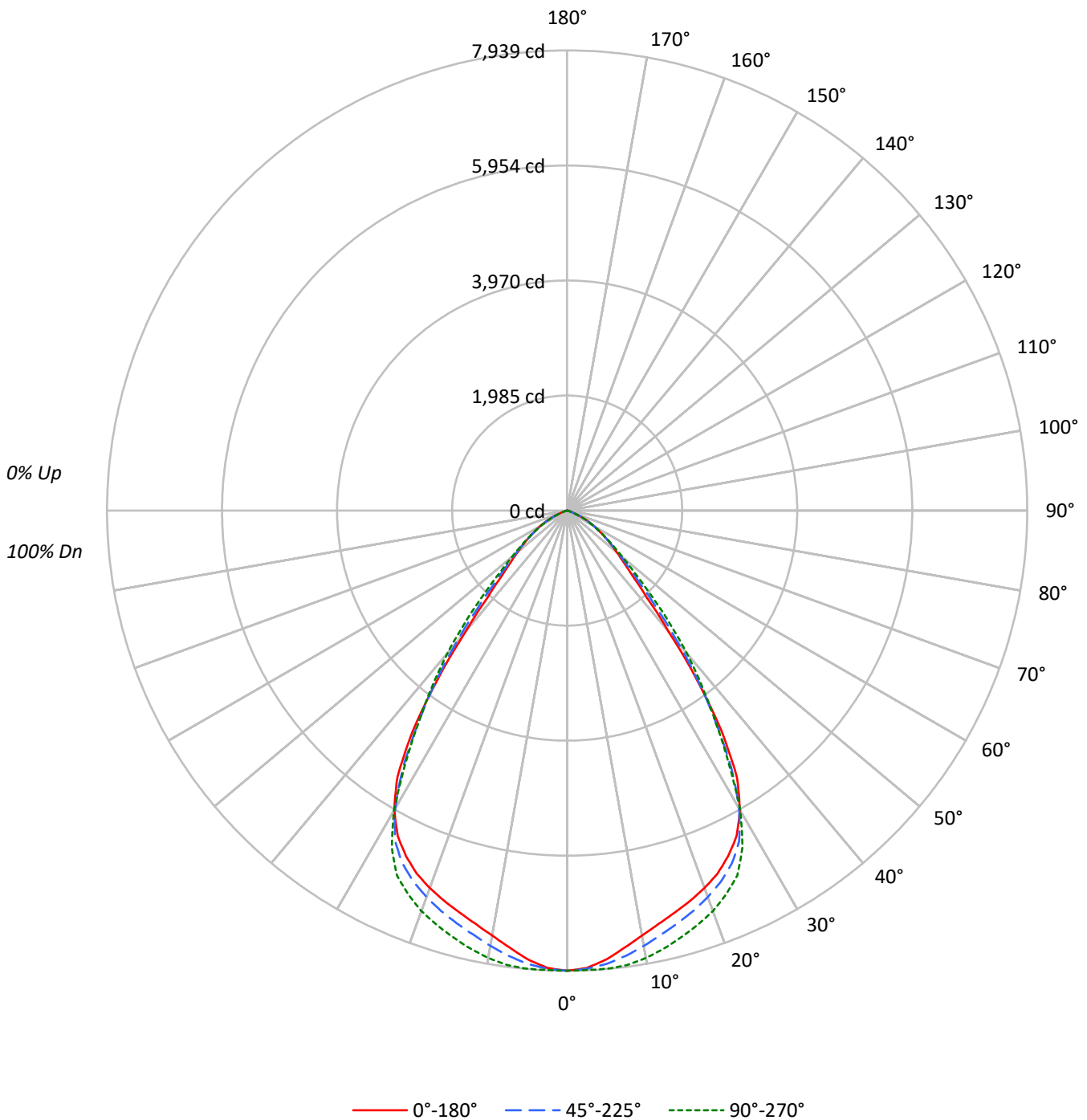
Input Watts (W): 118.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	98	96	96	94	93	91					91			
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	86	84	83					83			
3	99	91	85	81	97	90	84	80	87	83	79	85	81	78	82	79	76	75					75			
4	93	84	77	72	91	83	77	72	80	75	71	78	74	70	76	72	69	68					68			
5	87	77	70	65	85	76	70	65	74	69	64	72	68	64	71	67	63	61					61			
6	82	71	64	59	80	70	64	59	69	63	59	67	62	58	66	61	58	56					56			
7	77	66	59	54	75	65	59	54	64	58	54	63	57	53	61	57	53	51					51			
8	72	61	54	50	71	61	54	49	59	54	49	58	53	49	57	52	49	47					47			
9	68	57	50	46	67	57	50	46	56	50	45	55	49	45	54	49	45	44					44			
10	65	53	47	42	63	53	47	42	52	46	42	51	46	42	50	45	42	40					40			

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

	0°	45°	90°
0°	244803	244803	244803
5°	240609	242922	245612
10°	233096	238754	245389
15°	229154	235226	243249
20°	227348	232831	241255
25°	223753	228696	236369
30°	212298	211426	212779
35°	174993	168808	168398
40°	109640	119429	129324
45°	69491	77249	86965
50°	53504	55591	59501
55°	42359	42214	43746
60°	33007	32341	32168
65°	22203	21313	20715
70°	10170	9304	8818
75°	4861	4373	4051
80°	2415	2166	2166
85°	1451	1451	955



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	742.4	6.6
10°-20°	2084.7	18.6
20°-30°	3070.3	27.4
30°-40°	2792.6	24.9
40°-50°	1445.6	12.9
50°-60°	724.2	6.5
60°-70°	294.9	2.6
70°-80°	47.0	0.4
80°-90°	5.1	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°	5897.5	52.6
0°-40°	8690.1	77.5
0°-60°	10860.0	96.9
0°-90°	11207.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11207.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	7939	7939	7939	7939	7939	
5°	7773	7793	7848	7908	7935	731
15°	7178	7227	7368	7538	7620	2029
25°	6576	6621	6722	6875	6947	3011
35°	4649	4619	4484	4446	4473	2803
45°	1594	1649	1771	1909	1994	1312
55°	788	785	785	800	814	716
65°	304	303	292	288	284	307
75°	41	39	37	34	34	52
85°	4	4	4	3	3	6
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	7938.8	7938.8	7938.8	7938.8	7938.8
2.5°	7896.7	7900.8	7911.6	7923.9	7933.4
5°	7773.1	7793.4	7847.8	7907.6	7934.7
7.5°	7604.6	7649.5	7748.6	7860.0	7908.9
10°	7444.3	7495.9	7625.0	7774.4	7836.9
12.5°	7303.0	7353.3	7493.2	7660.3	7737.8
15°	7178.1	7227.0	7368.3	7538.1	7619.6
17.5°	7059.9	7104.7	7239.2	7409.0	7491.9
20°	6928.1	6967.5	7095.2	7259.6	7351.9
22.5°	6778.7	6808.6	6928.1	7084.3	7165.8
25°	6576.3	6621.1	6721.6	6875.1	6947.1
27.5°	6329.0	6357.6	6426.8	6520.6	6550.5
30°	5962.3	5960.9	5937.8	5937.8	5975.8
32.5°	5452.8	5387.6	5277.6	5211.0	5205.6
35°	4648.6	4618.7	4484.3	4446.2	4473.4
37.5°	3667.8	3688.2	3722.2	3776.5	3825.4
40°	2723.7	2775.3	2966.9	3138.0	3212.7
42.5°	2032.2	2098.8	2294.4	2481.9	2572.9
45°	1593.5	1649.2	1771.4	1908.6	1994.2
47.5°	1317.7	1346.2	1411.4	1503.8	1547.3
50°	1115.3	1128.9	1158.8	1206.3	1240.3
52.5°	946.8	941.4	957.7	989.0	1001.2
55°	787.9	785.2	785.2	800.1	813.7
57.5°	653.4	649.3	641.2	648.0	652.1
60°	535.2	531.2	524.4	523.0	521.6
62.5°	430.6	423.8	410.3	407.5	407.5
65°	304.3	302.9	292.1	288.0	283.9
67.5°	188.8	183.4	173.9	165.7	164.4
70°	112.8	111.4	103.2	97.8	97.8
72.5°	67.9	65.2	61.1	58.4	57.1
75°	40.8	39.4	36.7	34.0	34.0
77.5°	24.5	23.1	21.7	20.4	20.4
80°	13.6	13.6	12.2	12.2	12.2
82.5°	8.2	8.2	6.8	6.8	6.8
85°	4.1	4.1	4.1	2.7	2.7
87.5°	1.4	1.4	1.4	1.4	1.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)