

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: P247281

Luminaire Tested: **LSR8B120D010 EC8B1209727 8LBW0WMH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247281  
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 EC8B1209727 8LBW0WMH  
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
97 CRI 2700 CCT WITH WARM HAZE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8462.0 lumens  
Efficiency: N/A  
Efficacy: 71.5 lumens/watt  
Spacing Criteria (0/90/45): 1.13 / 1.14 / 1.06  
Luminous Opening: Point Source (0' x 0' x 0')  
CIE Type: Direct

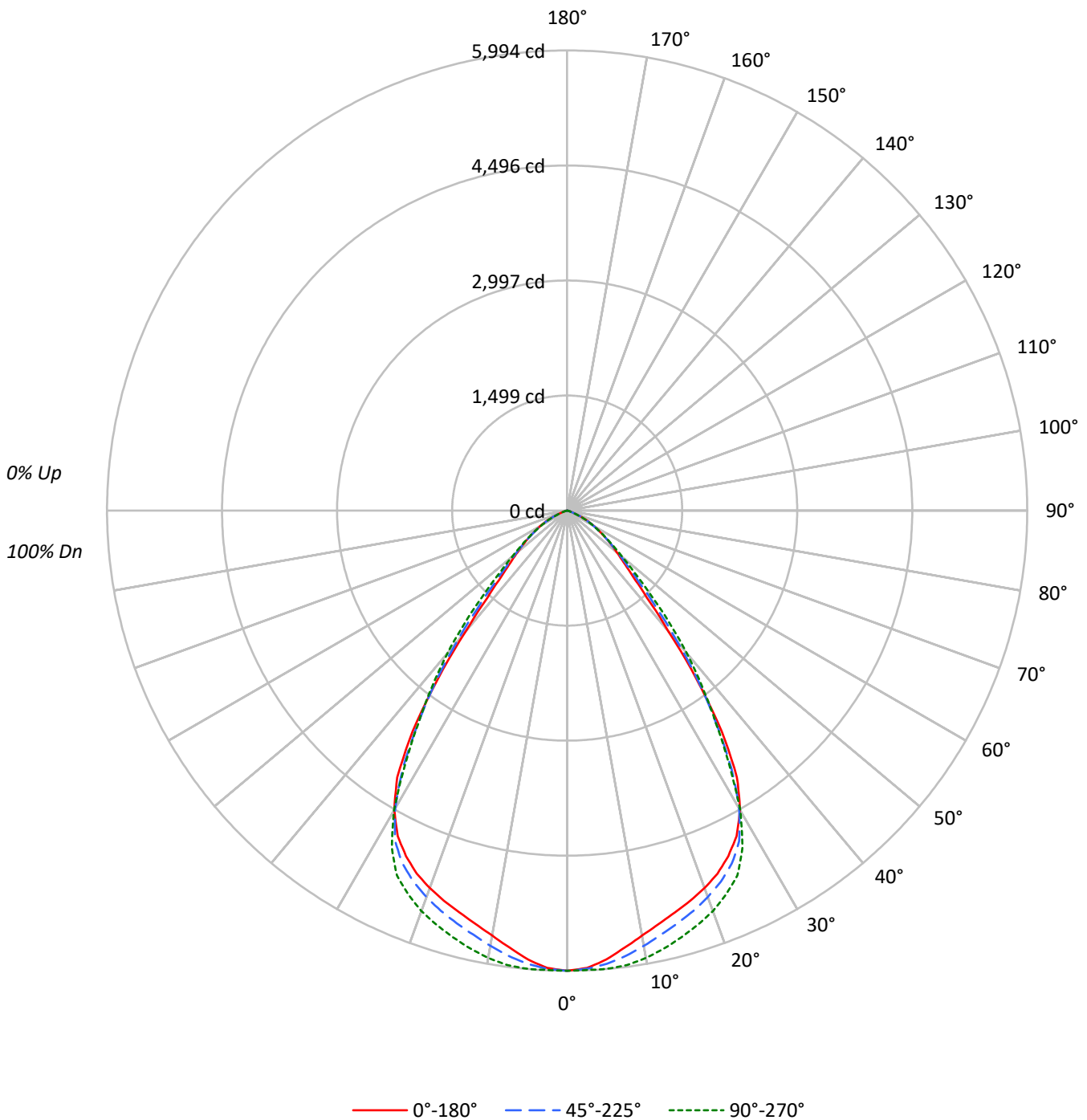
Input Watts (W): 118.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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				
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100	100
1	112	109	106	104	110	107	104	102	103	101	99	99	98	96	96	94	93	91	91	91	91
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	86	84	83	83	83	83
3	99	91	85	81	97	90	84	80	87	83	79	85	81	78	82	79	76	75	75	75	75
4	93	84	77	72	91	83	77	72	80	75	71	78	74	70	76	72	69	68	68	68	68
5	87	77	70	65	85	76	70	65	74	69	64	72	68	64	71	67	63	61	61	61	61
6	82	71	64	59	80	70	64	59	69	63	59	67	62	58	66	61	58	56	56	56	56
7	77	66	59	54	75	65	59	54	64	58	54	63	57	53	61	57	53	51	51	51	51
8	72	61	54	50	71	61	54	49	59	54	49	58	53	49	57	52	49	47	47	47	47
9	68	57	50	46	67	57	50	46	56	50	45	55	49	45	54	49	45	44	44	44	44
10	65	53	47	42	63	53	47	42	52	46	42	51	46	42	50	45	42	40	40	40	40

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

	0°	45°	90°
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°	560.6	6.6
10°-20°	1574.1	18.6
20°-30°	2318.3	27.4
30°-40°	2108.6	24.9
40°-50°	1091.5	12.9
50°-60°	546.8	6.5
60°-70°	222.7	2.6
70°-80°	35.5	0.4
80°-90°	3.8	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°	4453.0	52.6
0°-40°	6561.6	77.5
0°-60°	8200.0	96.9
0°-90°	8462.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8462.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5994	5994	5994	5994	5994	
5°	5869	5884	5926	5971	5991	552
15°	5420	5457	5564	5692	5753	1532
25°	4966	4999	5075	5191	5246	2273
35°	3510	3487	3386	3357	3378	2117
45°	1203	1245	1338	1441	1506	991
55°	595	593	593	604	614	540
65°	230	229	220	218	214	232
75°	31	30	28	26	26	39
85°	3	3	3	2	2	4
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	5994.3	5994.3	5994.3	5994.3	5994.3
2.5°	5962.5	5965.6	5973.8	5983.0	5990.2
5°	5869.2	5884.5	5925.6	5970.7	5991.2
7.5°	5742.0	5775.8	5850.7	5934.8	5971.7
10°	5620.9	5659.9	5757.4	5870.2	5917.4
12.5°	5514.3	5552.2	5657.9	5784.0	5842.5
15°	5419.9	5456.8	5563.5	5691.7	5753.3
17.5°	5330.7	5364.5	5466.1	5594.3	5656.8
20°	5231.2	5260.9	5357.3	5481.4	5551.2
22.5°	5118.3	5140.9	5231.2	5349.1	5410.7
25°	4965.5	4999.4	5075.3	5191.2	5245.5
27.5°	4778.8	4800.4	4852.7	4923.5	4946.0
30°	4501.9	4500.9	4483.4	4483.4	4512.1
32.5°	4117.2	4068.0	3984.9	3934.7	3930.6
35°	3510.0	3487.4	3385.9	3357.2	3377.7
37.5°	2769.4	2784.8	2810.5	2851.5	2888.4
40°	2056.6	2095.5	2240.2	2369.4	2425.8
42.5°	1534.5	1584.7	1732.4	1874.0	1942.7
45°	1203.2	1245.2	1337.5	1441.1	1505.8
47.5°	994.9	1016.5	1065.7	1135.5	1168.3
50°	842.1	852.4	874.9	910.8	936.5
52.5°	714.9	710.8	723.1	746.7	756.0
55°	594.9	592.9	592.9	604.1	614.4
57.5°	493.4	490.3	484.1	489.3	492.3
60°	404.1	401.1	395.9	394.9	393.9
62.5°	325.2	320.0	309.8	307.7	307.7
65°	229.8	228.7	220.5	217.5	214.4
67.5°	142.6	138.5	131.3	125.1	124.1
70°	85.1	84.1	78.0	73.9	73.9
72.5°	51.3	49.2	46.2	44.1	43.1
75°	30.8	29.7	27.7	25.6	25.6
77.5°	18.5	17.4	16.4	15.4	15.4
80°	10.3	10.3	9.2	9.2	9.2
82.5°	6.2	6.2	5.1	5.1	5.1
85°	3.1	3.1	3.1	2.1	2.1
87.5°	1.0	1.0	1.0	1.0	1.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)