

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: P247245

Luminaire Tested: **LSR8B120D010 EC8B120830 8LBW0WMH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247245  
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 EC8B120830 8LBW0WMH  
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
80 CRI 3000 CCT WITH WARM HAZE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11687.0 lumens  
Efficiency: N/A  
Efficacy: 98.8 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

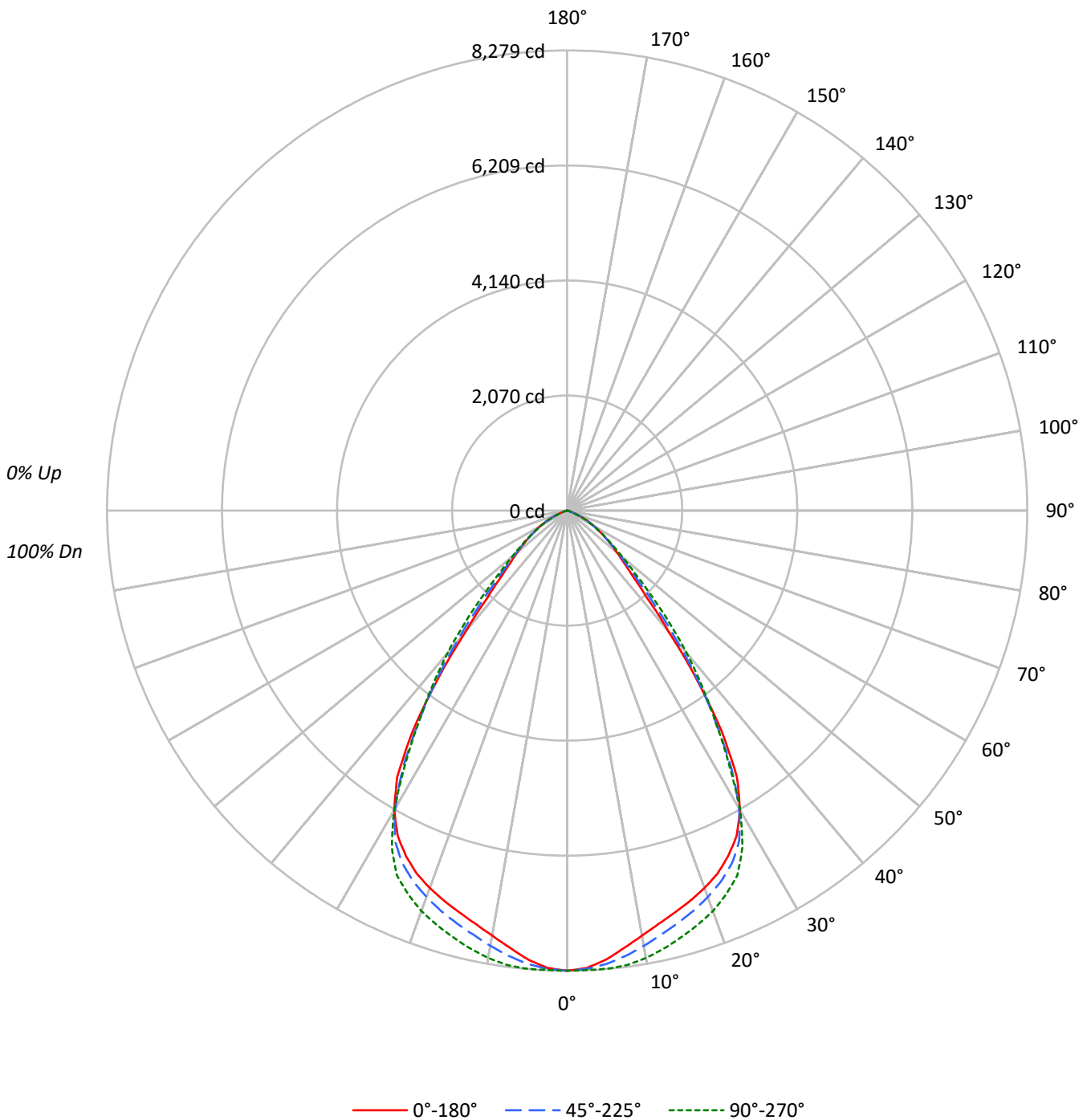
Input Watts (W): 118.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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

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

	0°	45°	90°
0°	255288	255288	255288
5°	250914	253325	256133
10°	243081	248981	255901
15°	238968	245298	253666
20°	237084	242804	251588
25°	233334	238492	246494
30°	221388	220480	221894
35°	182488	176036	175610
40°	114337	124542	134863
45°	72465	80559	90690
50°	55797	57970	62048
55°	44170	44020	45622
60°	34426	33723	33550
65°	23152	22225	21605
70°	10603	9710	9196
75°	5064	4551	4218
80°	2522	2255	2255
85°	1486	1486	991



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	774.2	6.6
10°-20°	2174.0	18.6
20°-30°	3201.8	27.4
30°-40°	2912.2	24.9
40°-50°	1507.5	12.9
50°-60°	755.3	6.5
60°-70°	307.6	2.6
70°-80°	49.0	0.4
80°-90°	5.3	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°	6150.1	52.6
0°-40°	9062.3	77.5
0°-60°	11325.1	96.9
0°-90°	11687.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11687.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	8279	8279	8279	8279	8279	
5°	8106	8127	8184	8246	8275	762
15°	7486	7536	7684	7861	7946	2115
25°	6858	6905	7010	7170	7245	3140
35°	4848	4817	4676	4637	4665	2923
45°	1662	1720	1847	1990	2080	1369
55°	822	819	819	834	849	746
65°	317	316	305	300	296	320
75°	42	41	38	35	35	54
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°	8278.8	8278.8	8278.8	8278.8	8278.8
2.5°	8234.9	8239.2	8250.5	8263.2	8273.2
5°	8106.0	8127.2	8183.9	8246.2	8274.6
7.5°	7930.3	7977.1	8080.5	8196.7	8247.7
10°	7763.2	7817.0	7951.6	8107.4	8172.6
12.5°	7615.8	7668.3	7814.2	7988.4	8069.2
15°	7485.5	7536.5	7683.8	7860.9	7945.9
17.5°	7362.3	7409.0	7549.3	7726.3	7812.7
20°	7224.8	7265.9	7399.1	7570.5	7666.8
22.5°	7069.0	7100.2	7224.8	7387.8	7472.8
25°	6857.9	6904.7	7009.5	7169.6	7244.7
27.5°	6600.1	6629.9	6702.1	6799.9	6831.0
30°	6217.6	6216.2	6192.1	6192.1	6231.8
32.5°	5686.4	5618.4	5503.6	5434.2	5428.6
35°	4847.7	4816.6	4676.3	4636.7	4665.0
37.5°	3824.9	3846.2	3881.6	3938.2	3989.2
40°	2840.4	2894.2	3093.9	3272.4	3350.3
42.5°	2119.3	2188.7	2392.7	2588.2	2683.1
45°	1661.7	1719.8	1847.3	1990.4	2079.6
47.5°	1374.1	1403.9	1471.9	1568.2	1613.5
50°	1163.1	1177.2	1208.4	1258.0	1293.4
52.5°	987.4	981.7	998.7	1031.3	1044.1
55°	821.6	818.8	818.8	834.4	848.6
57.5°	681.4	677.2	668.7	675.7	680.0
60°	558.2	553.9	546.8	545.4	544.0
62.5°	449.1	442.0	427.8	425.0	425.0
65°	317.3	315.9	304.6	300.3	296.1
67.5°	196.9	191.2	181.3	172.8	171.4
70°	117.6	116.2	107.7	102.0	102.0
72.5°	70.8	68.0	63.7	60.9	59.5
75°	42.5	41.1	38.2	35.4	35.4
77.5°	25.5	24.1	22.7	21.2	21.2
80°	14.2	14.2	12.7	12.7	12.7
82.5°	8.5	8.5	7.1	7.1	7.1
85°	4.2	4.2	4.2	2.8	2.8
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)