

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: P247244

Luminaire Tested: **LSR8B100D010 EC8B100830 8LBW0WMH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247244  
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: LSR8B100D010 EC8B100830 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: 10308.9 lumens  
Efficiency: N/A  
Efficacy: 97.0 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

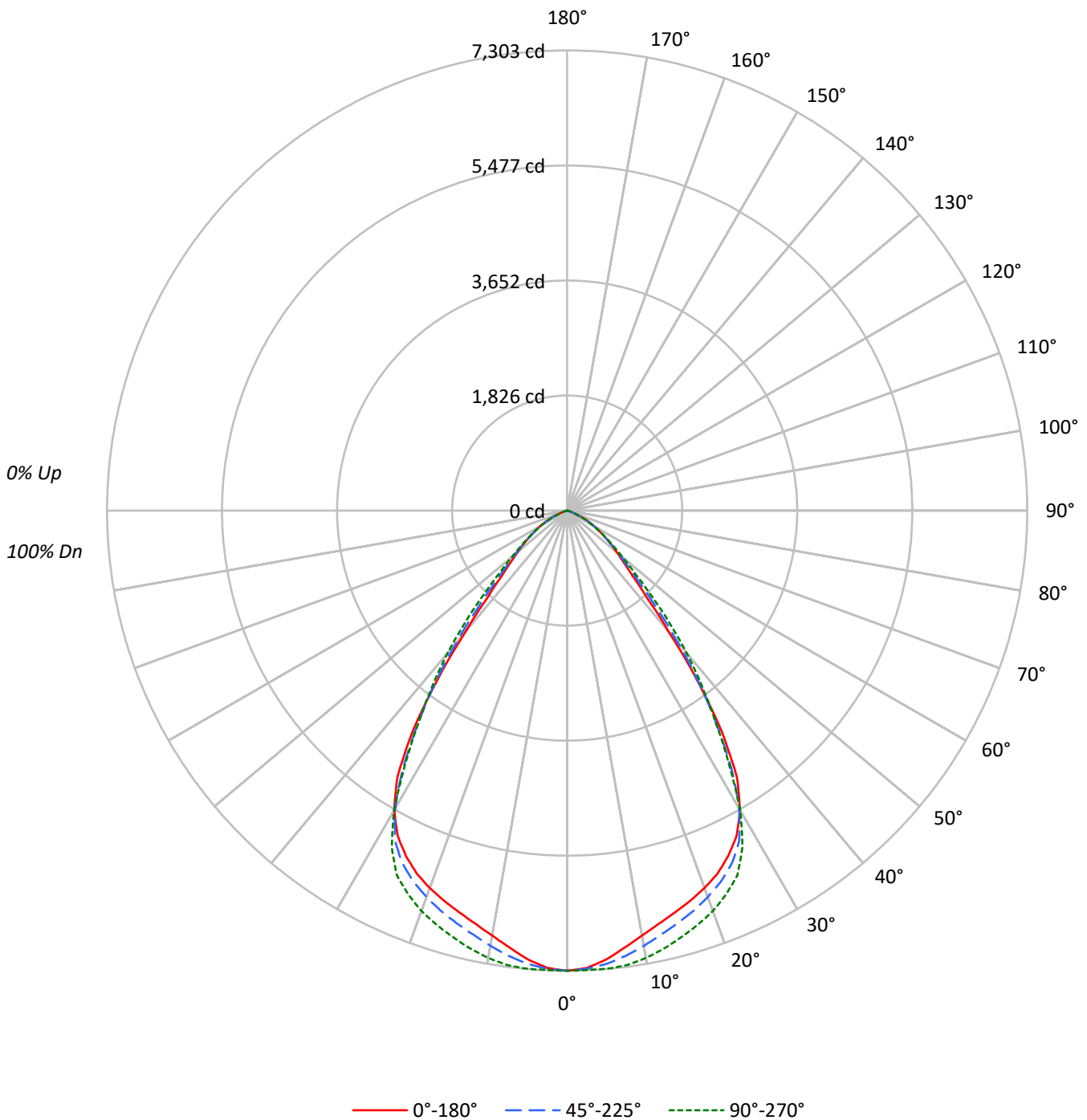
Input Watts (W): 106.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	225188	225188	225188
5°	221328	223458	225931
10°	214418	219622	225728
15°	210792	216375	223756
20°	209132	214176	221923
25°	205822	210371	217431
30°	195285	194484	195730
35°	160970	155279	154902
40°	100856	109857	118962
45°	63922	71061	79997
50°	49215	51134	54732
55°	38966	38832	40240
60°	30361	29745	29591
65°	20423	19606	19058
70°	9350	8565	8114
75°	4468	4015	3717
80°	2220	1989	1989
85°	1309	1309	885



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	682.9	6.6
10°-20°	1917.7	18.6
20°-30°	2824.3	27.4
30°-40°	2568.8	24.9
40°-50°	1329.8	12.9
50°-60°	666.2	6.5
60°-70°	271.3	2.6
70°-80°	43.3	0.4
80°-90°	4.6	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°	5424.9	52.6
0°-40°	7993.8	77.5
0°-60°	9989.8	96.9
0°-90°	10308.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10308.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	7303	7303	7303	7303	7303	
5°	7150	7169	7219	7274	7299	672
15°	6603	6648	6778	6934	7009	1866
25°	6049	6091	6183	6324	6390	2770
35°	4276	4249	4125	4090	4115	2579
45°	1466	1517	1630	1756	1834	1207
55°	725	722	722	736	748	658
65°	280	279	269	265	261	282
75°	38	36	34	31	31	47
85°	4	4	4	2	2	5
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	7302.7	7302.7	7302.7	7302.7	7302.7
2.5°	7263.9	7267.7	7277.7	7288.9	7297.7
5°	7150.2	7169.0	7219.0	7273.9	7298.9
7.5°	6995.3	7036.5	7127.7	7230.2	7275.2
10°	6847.8	6895.3	7014.0	7151.5	7209.0
12.5°	6717.9	6764.1	6892.8	7046.5	7117.7
15°	6602.9	6647.9	6777.8	6934.0	7009.0
17.5°	6494.2	6535.4	6659.1	6815.3	6891.6
20°	6373.0	6409.2	6526.7	6677.9	6762.8
22.5°	6235.5	6263.0	6373.0	6516.7	6591.7
25°	6049.3	6090.6	6183.0	6324.2	6390.5
27.5°	5821.9	5848.1	5911.9	5998.1	6025.6
30°	5484.5	5483.3	5462.0	5462.0	5497.0
32.5°	5015.9	4955.9	4854.7	4793.5	4788.5
35°	4276.1	4248.6	4124.9	4089.9	4114.9
37.5°	3373.9	3392.7	3423.9	3473.9	3518.9
40°	2505.5	2552.9	2729.1	2886.6	2955.3
42.5°	1869.4	1930.6	2110.6	2283.0	2366.7
45°	1465.8	1517.0	1629.5	1755.7	1834.4
47.5°	1212.1	1238.4	1298.3	1383.3	1423.3
50°	1025.9	1038.4	1065.9	1109.6	1140.9
52.5°	871.0	866.0	881.0	909.7	921.0
55°	724.8	722.3	722.3	736.0	748.5
57.5°	601.1	597.3	589.8	596.1	599.8
60°	492.3	488.6	482.3	481.1	479.8
62.5°	396.1	389.9	377.4	374.9	374.9
65°	279.9	278.7	268.7	264.9	261.2
67.5°	173.7	168.7	159.9	152.5	151.2
70°	103.7	102.5	95.0	90.0	90.0
72.5°	62.5	60.0	56.2	53.7	52.5
75°	37.5	36.2	33.7	31.2	31.2
77.5°	22.5	21.2	20.0	18.7	18.7
80°	12.5	12.5	11.2	11.2	11.2
82.5°	7.5	7.5	6.2	6.2	6.2
85°	3.7	3.7	3.7	2.5	2.5
87.5°	1.2	1.2	1.2	1.2	1.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)