

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: P247272

Luminaire Tested: **LSR8B100D010 EC8B100940 8LBW0WMH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247272  
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 EC8B100940 8LBW0WMH  
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
90 CRI 4000 CCT WITH WARM HAZE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9549.0 lumens  
Efficiency: N/A  
Efficacy: 89.8 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

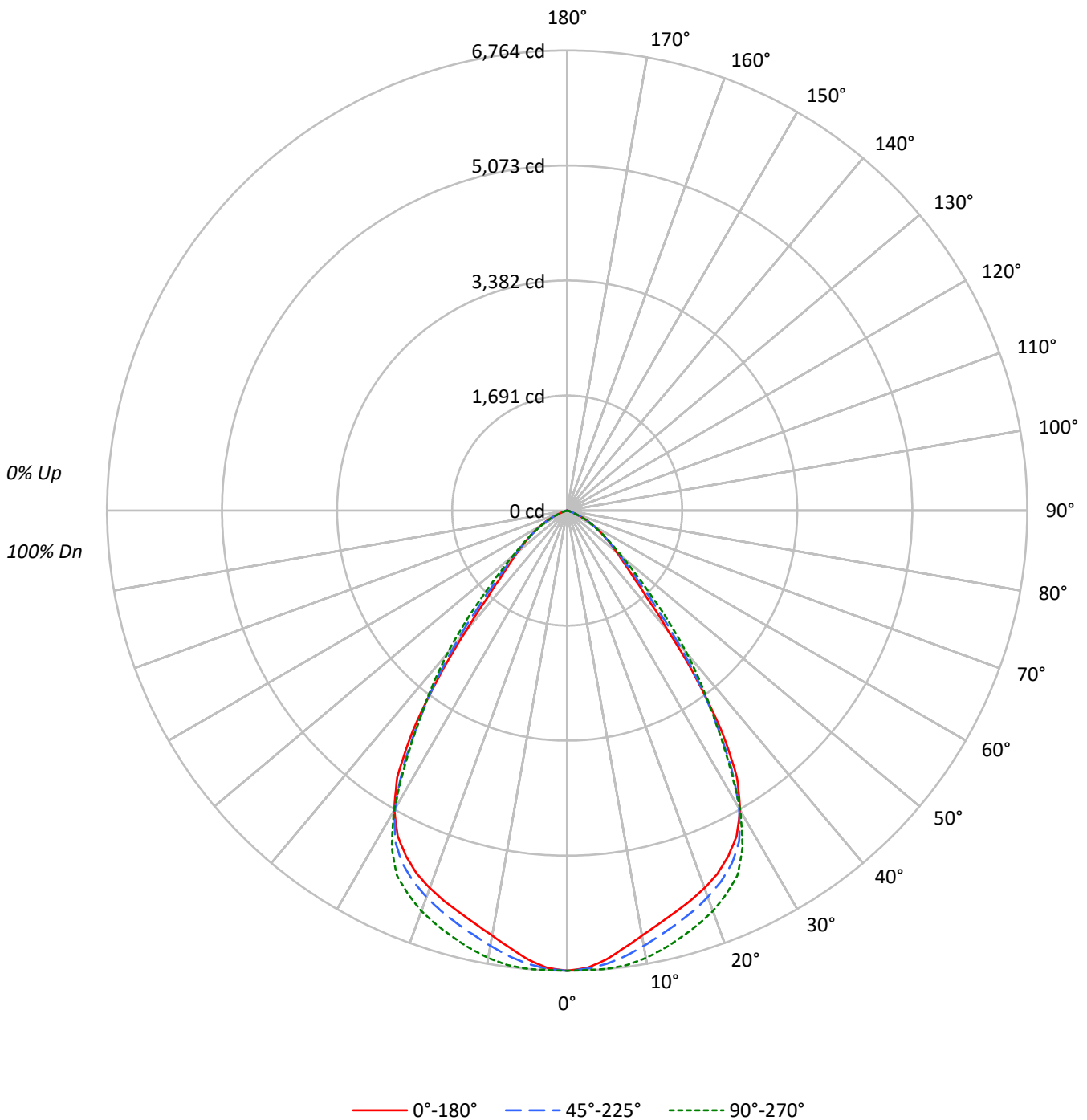
Input Watts (W): 106.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	208586	208586	208586
5°	205012	206984	209275
10°	198612	203431	209086
15°	195251	200426	207261
20°	193712	198385	205565
25°	190651	194863	201399
30°	180889	180145	181302
35°	149105	143831	143485
40°	93417	101758	110191
45°	59208	65824	74101
50°	45589	47364	50698
55°	36090	35966	37273
60°	28123	27555	27413
65°	18920	18161	17650
70°	8664	7934	7510
75°	4134	3729	3443
80°	2060	1847	1847
85°	1238	1238	814



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	632.6	6.6
10°-20°	1776.3	18.6
20°-30°	2616.1	27.4
30°-40°	2379.4	24.9
40°-50°	1231.8	12.9
50°-60°	617.1	6.5
60°-70°	251.3	2.6
70°-80°	40.1	0.4
80°-90°	4.3	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°	5025.0	52.6
0°-40°	7404.4	77.5
0°-60°	9253.3	96.9
0°-90°	9549.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9549.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	6764	6764	6764	6764	6764	
5°	6623	6640	6687	6738	6761	623
15°	6116	6158	6278	6423	6492	1728
25°	5603	5642	5727	5858	5919	2565
35°	3961	3935	3821	3788	3812	2389
45°	1358	1405	1509	1626	1699	1118
55°	671	669	669	682	693	610
65°	259	258	249	245	242	261
75°	35	34	31	29	29	44
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°	6764.3	6764.3	6764.3	6764.3	6764.3
2.5°	6728.4	6731.9	6741.2	6751.6	6759.7
5°	6623.1	6640.5	6686.8	6737.7	6760.8
7.5°	6479.6	6517.8	6602.3	6697.2	6738.8
10°	6343.0	6387.0	6496.9	6624.3	6677.5
12.5°	6222.6	6265.4	6384.7	6527.0	6593.0
15°	6116.1	6157.8	6278.2	6422.9	6492.3
17.5°	6015.4	6053.6	6168.2	6312.9	6383.5
20°	5903.1	5936.7	6045.5	6185.6	6264.3
22.5°	5775.8	5801.3	5903.1	6036.3	6105.7
25°	5603.4	5641.6	5727.2	5858.0	5919.3
27.5°	5392.7	5417.0	5476.0	5555.9	5581.4
30°	5080.2	5079.0	5059.3	5059.3	5091.8
32.5°	4646.1	4590.6	4496.8	4440.1	4435.5
35°	3960.9	3935.4	3820.8	3788.4	3811.6
37.5°	3125.2	3142.6	3171.5	3217.8	3259.5
40°	2320.7	2364.7	2527.9	2673.8	2737.4
42.5°	1731.6	1788.3	1955.0	2114.7	2192.3
45°	1357.7	1405.2	1509.4	1626.3	1699.2
47.5°	1122.8	1147.1	1202.6	1281.3	1318.4
50°	950.3	961.9	987.3	1027.8	1056.8
52.5°	806.8	802.1	816.0	842.6	853.1
55°	671.3	669.0	669.0	681.8	693.3
57.5°	556.7	553.3	546.3	552.1	555.6
60°	456.0	452.6	446.8	445.6	444.5
62.5°	366.9	361.1	349.6	347.2	347.2
65°	259.3	258.1	248.9	245.4	241.9
67.5°	160.9	156.3	148.2	141.2	140.1
70°	96.1	94.9	88.0	83.3	83.3
72.5°	57.9	55.6	52.1	49.8	48.6
75°	34.7	33.6	31.3	28.9	28.9
77.5°	20.8	19.7	18.5	17.4	17.4
80°	11.6	11.6	10.4	10.4	10.4
82.5°	6.9	6.9	5.8	5.8	5.8
85°	3.5	3.5	3.5	2.3	2.3
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)