

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: P247251

Luminaire Tested: **LSR8B90D010 EC8B90840 8LBW0WMH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247251  
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: LSR8B90D010 EC8B90840 8LBW0WMH  
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
80 CRI 4000 CCT WITH WARM HAZE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9231.0 lumens  
Efficiency: N/A  
Efficacy: 107.2 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

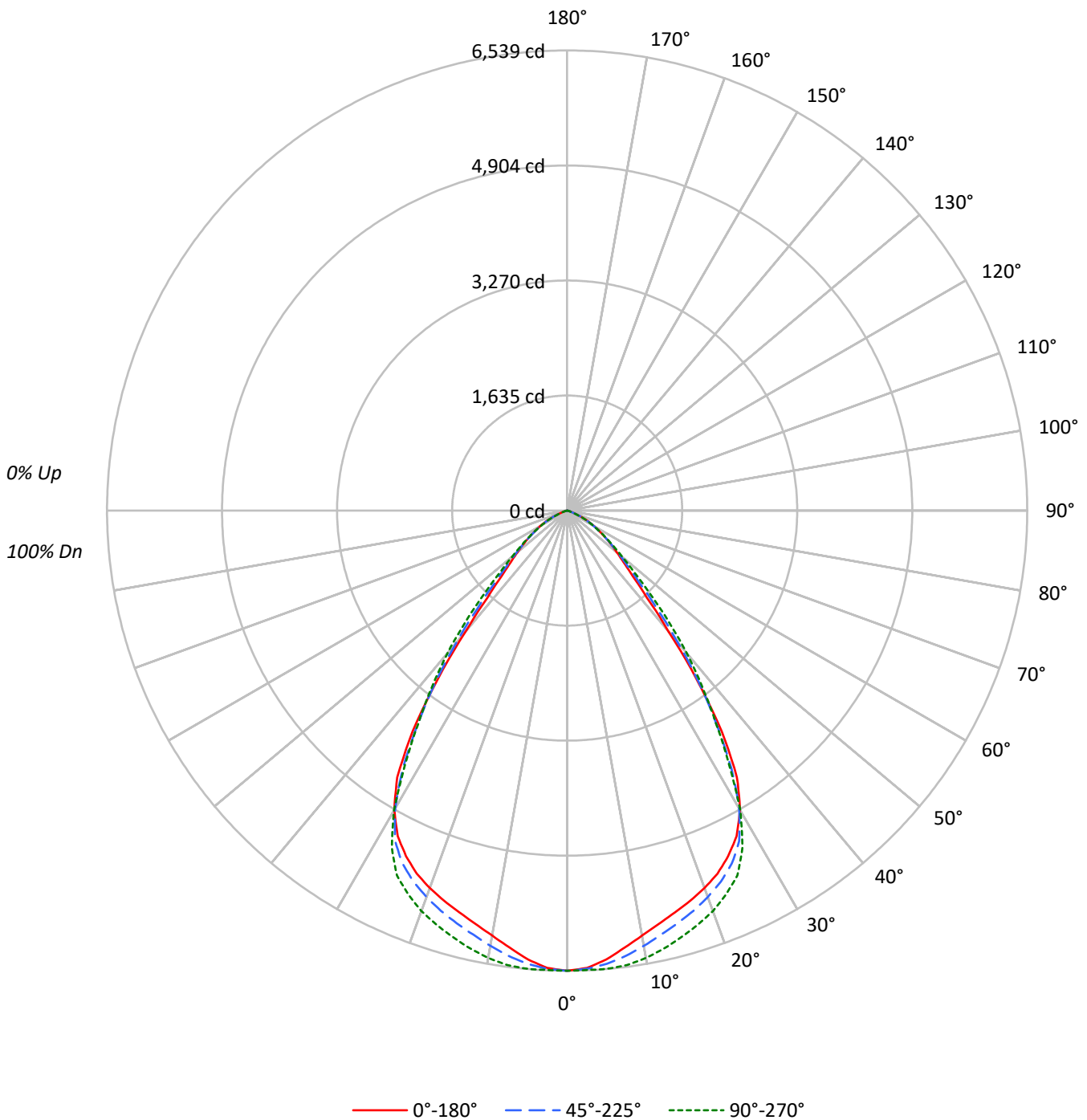
Input Watts (W): 86.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	201639	201639	201639
5°	198184	200090	202307
10°	191999	196658	202122
15°	188748	193751	200359
20°	187264	191779	198720
25°	184302	188374	194693
30°	174865	174149	175263
35°	144140	139043	138704
40°	90310	98369	106524
45°	57237	63630	71632
50°	44068	45785	49009
55°	34891	34768	36031
60°	27191	26636	26501
65°	18285	17555	17066
70°	8376	7664	7267
75°	4003	3598	3336
80°	1989	1794	1794
85°	1203	1203	778



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	611.5	6.6
10°-20°	1717.2	18.6
20°-30°	2529.0	27.4
30°-40°	2300.2	24.9
40°-50°	1190.7	12.9
50°-60°	596.5	6.5
60°-70°	242.9	2.6
70°-80°	38.7	0.4
80°-90°	4.2	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°	4857.7	52.6
0°-40°	7157.9	77.5
0°-60°	8945.2	96.9
0°-90°	9231.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9231.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	6539	6539	6539	6539	6539	
5°	6402	6419	6464	6513	6536	602
15°	5912	5953	6069	6209	6276	1671
25°	5417	5454	5536	5663	5722	2480
35°	3829	3804	3694	3662	3685	2309
45°	1312	1358	1459	1572	1643	1081
55°	649	647	647	659	670	590
65°	251	250	241	237	234	253
75°	34	32	30	28	28	42
85°	3	3	3	2	2	5
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	6539.0	6539.0	6539.0	6539.0	6539.0
2.5°	6504.4	6507.7	6516.7	6526.7	6534.6
5°	6402.5	6419.3	6464.1	6513.3	6535.7
7.5°	6263.8	6300.7	6382.4	6474.1	6514.4
10°	6131.8	6174.3	6280.6	6403.7	6455.1
12.5°	6015.4	6056.8	6172.0	6309.7	6373.4
15°	5912.4	5952.7	6069.1	6209.0	6276.1
17.5°	5815.1	5852.0	5962.8	6102.7	6170.9
20°	5706.6	5739.0	5844.2	5979.6	6055.7
22.5°	5583.5	5608.1	5706.6	5835.2	5902.4
25°	5416.8	5453.7	5536.5	5662.9	5722.2
27.5°	5213.1	5236.6	5293.7	5370.9	5395.5
30°	4911.0	4909.9	4890.9	4890.9	4922.2
32.5°	4491.4	4437.7	4347.1	4292.2	4287.8
35°	3829.0	3804.4	3693.6	3662.3	3684.6
37.5°	3021.1	3037.9	3065.9	3110.6	3150.9
40°	2243.5	2286.0	2443.7	2584.7	2646.3
42.5°	1673.9	1728.8	1889.9	2044.3	2119.3
45°	1312.5	1358.4	1459.1	1572.1	1642.6
47.5°	1085.4	1108.9	1162.6	1238.7	1274.5
50°	918.6	929.8	954.4	993.6	1021.6
52.5°	779.9	775.4	788.8	814.6	824.7
55°	649.0	646.7	646.7	659.1	670.2
57.5°	538.2	534.9	528.1	533.7	537.1
60°	440.9	437.5	431.9	430.8	429.7
62.5°	354.7	349.1	337.9	335.7	335.7
65°	250.6	249.5	240.6	237.2	233.9
67.5°	155.5	151.1	143.2	136.5	135.4
70°	92.9	91.8	85.0	80.6	80.6
72.5°	55.9	53.7	50.4	48.1	47.0
75°	33.6	32.4	30.2	28.0	28.0
77.5°	20.1	19.0	17.9	16.8	16.8
80°	11.2	11.2	10.1	10.1	10.1
82.5°	6.7	6.7	5.6	5.6	5.6
85°	3.4	3.4	3.4	2.2	2.2
87.5°	1.1	1.1	1.1	1.1	1.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)