

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: P247147

Luminaire Tested: **LSR8B90D010 EC8B90830 8LBW0H**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247147  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-58)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSR8B90D010 EC8B90830 8LBW0H  
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
80 CRI 3000 CCT WITH SEMI-SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9135.0 lumens  
Efficiency: N/A  
Efficacy: 106.1 lumens/watt  
Spacing Criteria (0/90/45): 1.13 / 1.13 / 1.06  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

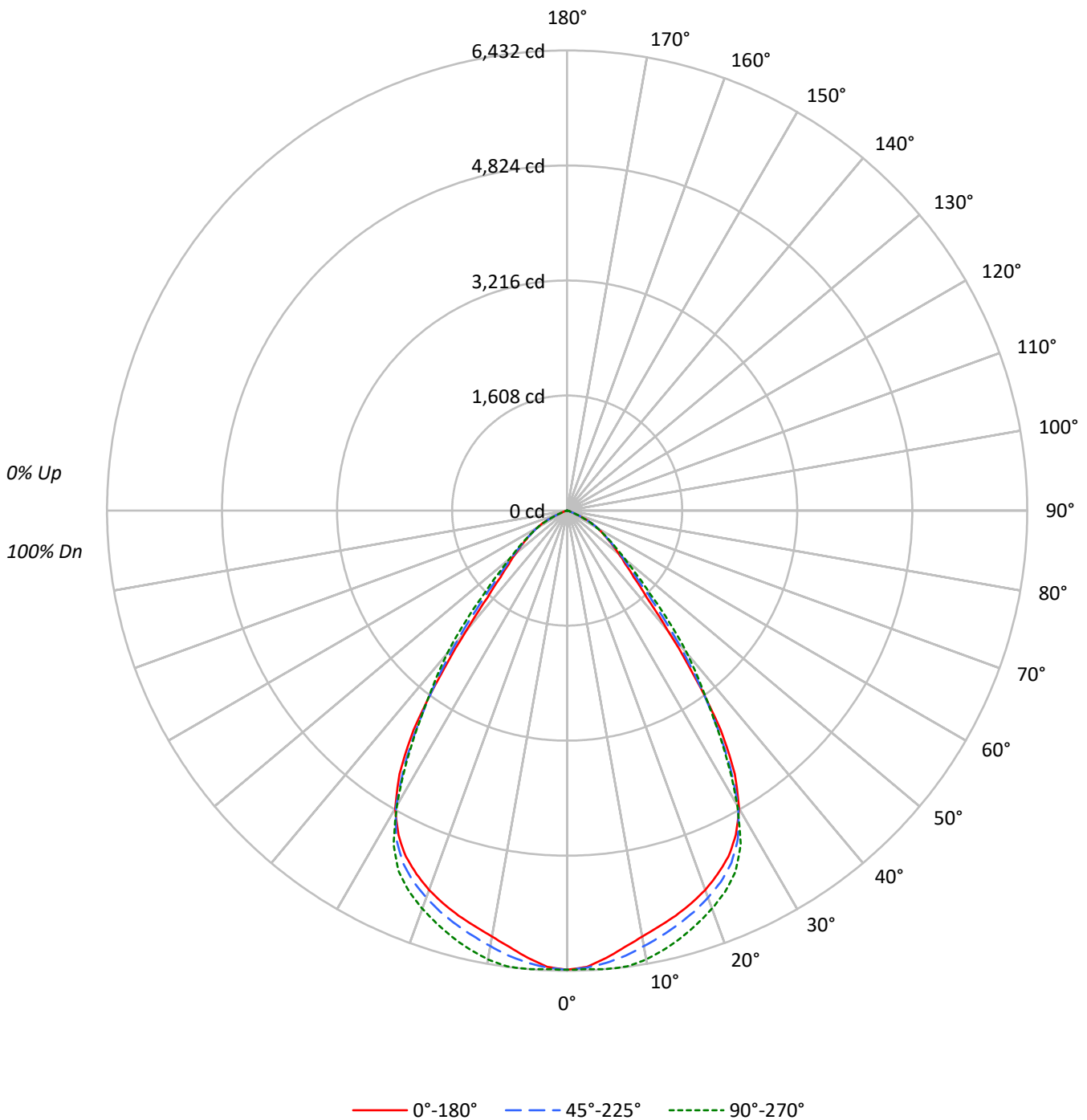
Input Watts (W): 86.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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	97	96	96	94	93	91					91			
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	86	84	82					82			
3	99	91	85	81	97	90	84	80	87	82	79	85	81	77	82	79	76	74					74			
4	93	84	77	72	91	82	76	72	80	75	71	78	74	70	76	72	69	67					67			
5	87	77	70	65	85	76	69	65	74	68	64	72	67	63	71	66	63	61					61			
6	81	71	64	59	80	70	64	59	69	63	58	67	62	58	66	61	57	56					56			
7	77	66	59	54	75	65	58	54	64	58	53	62	57	53	61	56	53	51					51			
8	72	61	54	49	71	60	54	49	59	53	49	58	53	49	57	52	49	47					47			
9	68	57	50	45	67	56	50	45	55	49	45	54	49	45	53	48	45	43					43			
10	64	53	47	42	63	53	46	42	52	46	42	51	46	42	50	45	42	40					40			

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

	0°	45°	90°
0°	197901	197901	197901
5°	194265	196376	199091
10°	189284	193593	199461
15°	187142	191257	197205
20°	185187	188918	194322
25°	181542	184822	189467
30°	171165	170392	169353
35°	140797	135944	135169
40°	88164	97274	105167
45°	57534	64145	71092
50°	45363	47546	50664
55°	36977	37617	38784
60°	30263	30059	29930
65°	19598	19044	18022
70°	6735	6248	5761
75°	2323	2192	2061
80°	959	764	764
85°	389	389	389



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	601.2	6.6
10°-20°	1693.8	18.5
20°-30°	2477.2	27.1
30°-40°	2244.7	24.6
40°-50°	1193.5	13.1
50°-60°	637.0	7.0
60°-70°	259.8	2.8
70°-80°	26.2	0.3
80°-90°	1.5	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°	4772.2	52.2
0°-40°	7016.9	76.8
0°-60°	8847.5	96.9
0°-90°	9135.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9135.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	6418	6418	6418	6418	6418	
5°	6276	6292	6344	6402	6432	592
15°	5862	5896	5991	6114	6177	1654
25°	5336	5358	5432	5525	5569	2438
35°	3740	3688	3611	3584	3591	2248
45°	1319	1358	1471	1588	1630	1079
55°	688	687	700	710	721	624
65°	269	268	261	246	247	268
75°	20	20	18	17	17	28
85°	1	1	1	1	1	2
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	6417.8	6417.8	6417.8	6417.8	6417.8
2.5°	6383.1	6382.0	6393.9	6408.0	6415.6
5°	6275.9	6292.1	6344.1	6401.5	6431.8
7.5°	6154.5	6184.9	6274.8	6373.3	6426.4
10°	6045.1	6084.1	6182.7	6311.6	6370.1
12.5°	5950.9	5988.8	6088.5	6220.6	6284.5
15°	5862.1	5895.7	5991.0	6114.5	6177.3
17.5°	5759.2	5791.7	5883.8	6000.7	6054.9
20°	5643.3	5670.4	5757.0	5866.4	5921.7
22.5°	5499.2	5528.5	5616.2	5716.9	5768.9
25°	5335.7	5358.4	5432.1	5525.2	5568.6
27.5°	5108.2	5128.8	5172.1	5221.9	5254.4
30°	4807.1	4801.7	4785.4	4770.3	4756.2
32.5°	4363.0	4311.0	4231.9	4182.1	4184.3
35°	3740.2	3688.2	3611.3	3584.2	3590.7
37.5°	2922.4	2961.4	2992.8	3044.8	3069.7
40°	2190.2	2257.3	2416.5	2555.2	2612.6
42.5°	1646.4	1712.5	1879.3	2025.5	2104.6
45°	1319.3	1358.3	1470.9	1587.9	1630.2
47.5°	1104.8	1122.2	1187.1	1261.9	1298.7
50°	945.6	956.4	991.1	1032.3	1056.1
52.5°	810.2	814.5	831.9	855.7	870.9
55°	687.8	686.7	699.7	709.5	721.4
57.5°	581.7	580.6	580.6	583.8	591.4
60°	490.7	487.4	487.4	483.1	485.3
62.5°	399.7	396.4	388.9	383.4	381.3
65°	268.6	267.5	261.0	245.9	247.0
67.5°	139.7	138.6	132.1	127.8	125.6
70°	74.7	72.6	69.3	66.1	63.9
72.5°	37.9	36.8	35.7	33.6	33.6
75°	19.5	19.5	18.4	17.3	17.3
77.5°	9.7	9.7	8.7	8.7	8.7
80°	5.4	5.4	4.3	4.3	4.3
82.5°	2.2	2.2	2.2	2.2	2.2
85°	1.1	1.1	1.1	1.1	1.1
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)