

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: P247151

Luminaire Tested: **LSR8B90D010 EC8B90835 8LBW0H**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247151  
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 EC8B90835 8LBW0H  
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
80 CRI 3500 CCT WITH SEMI-SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9499.0 lumens  
Efficiency: N/A  
Efficacy: 110.3 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

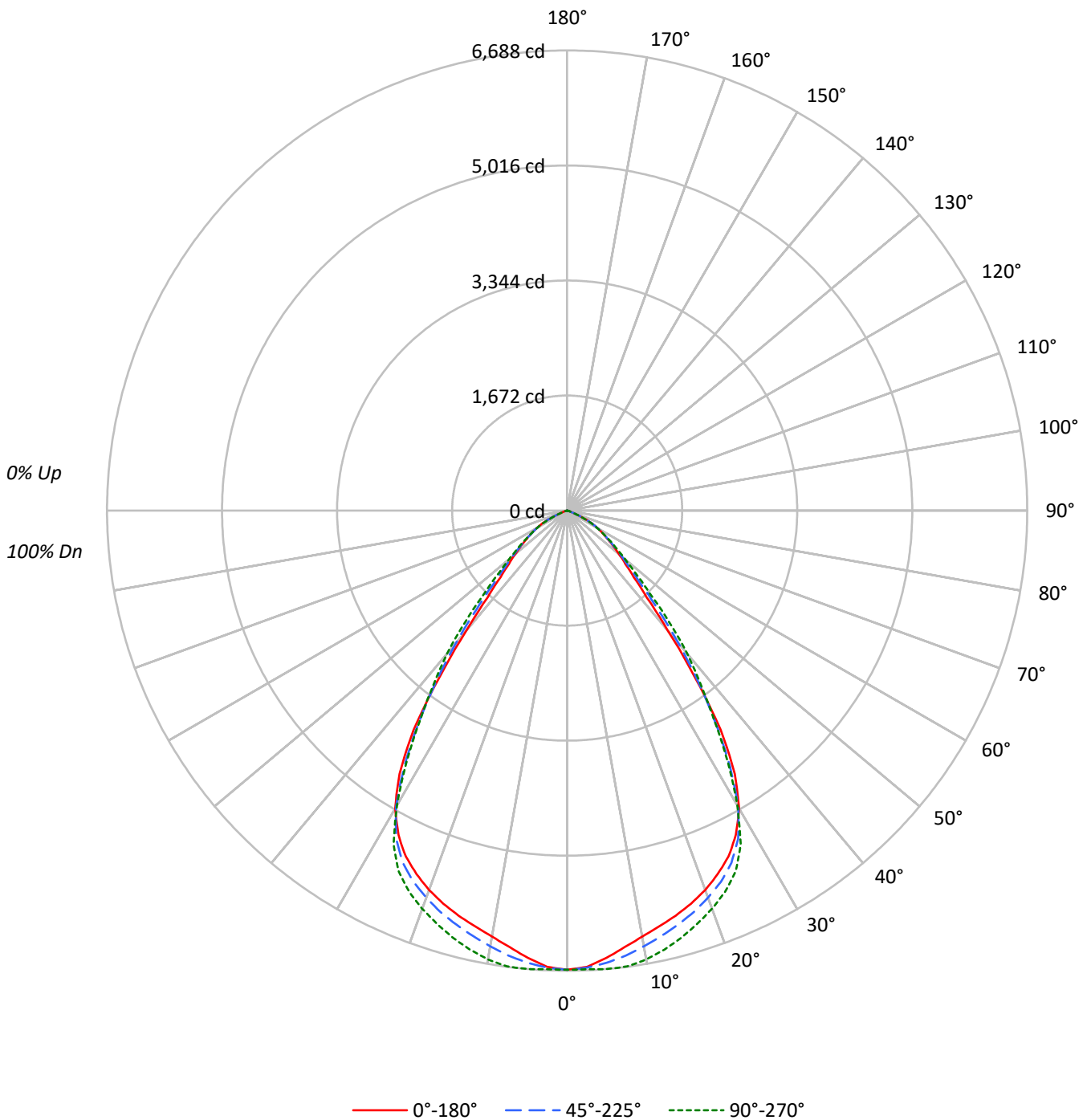
Input Watts (W): 86.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	205786	205786	205786
5°	202003	204201	207024
10°	196827	201308	207408
15°	194600	198878	205061
20°	192567	196446	202064
25°	188776	192185	197013
30°	177984	177183	176100
35°	146406	141361	140556
40°	91674	101150	109358
45°	59827	66705	73922
50°	47172	49441	52684
55°	38450	39117	40326
60°	31465	31256	31120
65°	20379	19803	18737
70°	7005	6500	5996
75°	2419	2276	2145
80°	994	799	799
85°	389	389	389



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	625.1	6.6
10°-20°	1761.3	18.5
20°-30°	2576.0	27.1
30°-40°	2334.1	24.6
40°-50°	1241.1	13.1
50°-60°	662.4	7.0
60°-70°	270.2	2.8
70°-80°	27.2	0.3
80°-90°	1.6	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°	4962.4	52.2
0°-40°	7296.5	76.8
0°-60°	9200.0	96.9
0°-90°	9499.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9499.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	6674	6674	6674	6674	6674	
5°	6526	6543	6597	6657	6688	615
15°	6096	6131	6230	6358	6423	1720
25°	5548	5572	5648	5745	5790	2536
35°	3889	3835	3755	3727	3734	2337
45°	1372	1412	1530	1651	1695	1122
55°	715	714	728	738	750	648
65°	279	278	271	256	257	278
75°	20	20	19	18	18	29
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°	6673.5	6673.5	6673.5	6673.5	6673.5
2.5°	6637.4	6636.3	6648.7	6663.3	6671.2
5°	6525.9	6542.8	6596.9	6656.6	6688.1
7.5°	6399.8	6431.3	6524.8	6627.3	6682.5
10°	6286.0	6326.6	6429.1	6563.1	6623.9
12.5°	6188.0	6227.5	6331.1	6468.5	6534.9
15°	6095.7	6130.6	6229.7	6358.1	6423.4
17.5°	5988.7	6022.5	6118.2	6239.8	6296.2
20°	5868.2	5896.3	5986.4	6100.2	6157.6
22.5°	5718.4	5748.8	5840.0	5944.7	5998.8
25°	5548.3	5571.9	5648.5	5745.4	5790.4
27.5°	5311.8	5333.2	5378.2	5430.0	5463.8
30°	4998.6	4993.0	4976.1	4960.3	4945.7
32.5°	4536.8	4482.8	4400.6	4348.7	4351.0
35°	3889.2	3835.1	3755.2	3727.0	3733.8
37.5°	3038.8	3079.4	3112.0	3166.1	3192.0
40°	2277.4	2347.3	2512.8	2657.0	2716.7
42.5°	1712.0	1780.7	1954.2	2106.2	2188.5
45°	1371.9	1412.4	1529.6	1651.2	1695.1
47.5°	1148.9	1166.9	1234.5	1312.2	1350.5
50°	983.3	994.5	1030.6	1073.4	1098.2
52.5°	842.5	847.0	865.0	889.8	905.6
55°	715.2	714.1	727.6	737.7	750.1
57.5°	604.8	603.7	603.7	607.1	615.0
60°	510.2	506.8	506.8	502.3	504.6
62.5°	415.6	412.2	404.4	398.7	396.5
65°	279.3	278.2	271.4	255.7	256.8
67.5°	145.3	144.2	137.4	132.9	130.7
70°	77.7	75.5	72.1	68.7	66.5
72.5°	39.4	38.3	37.2	34.9	34.9
75°	20.3	20.3	19.1	18.0	18.0
77.5°	10.1	10.1	9.0	9.0	9.0
80°	5.6	5.6	4.5	4.5	4.5
82.5°	2.3	2.3	2.3	2.3	2.3
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)