

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: P247943

Luminaire Tested: **LSR8B150D010 EC8B1509730 8LBW0H**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247943  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-70)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSR8B150D010 EC8B1509730 8LBW0H  
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
97 CRI 3000 CCT WITH SEMI-SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11984.0 lumens  
Efficiency: N/A  
Efficacy: 75.6 lumens/watt  
Spacing Criteria (0/90/45): 1.12 / 1.12 / 1.06  
Luminous Opening: Point Source (0' x 0' x 0')  
CIE Type: Direct

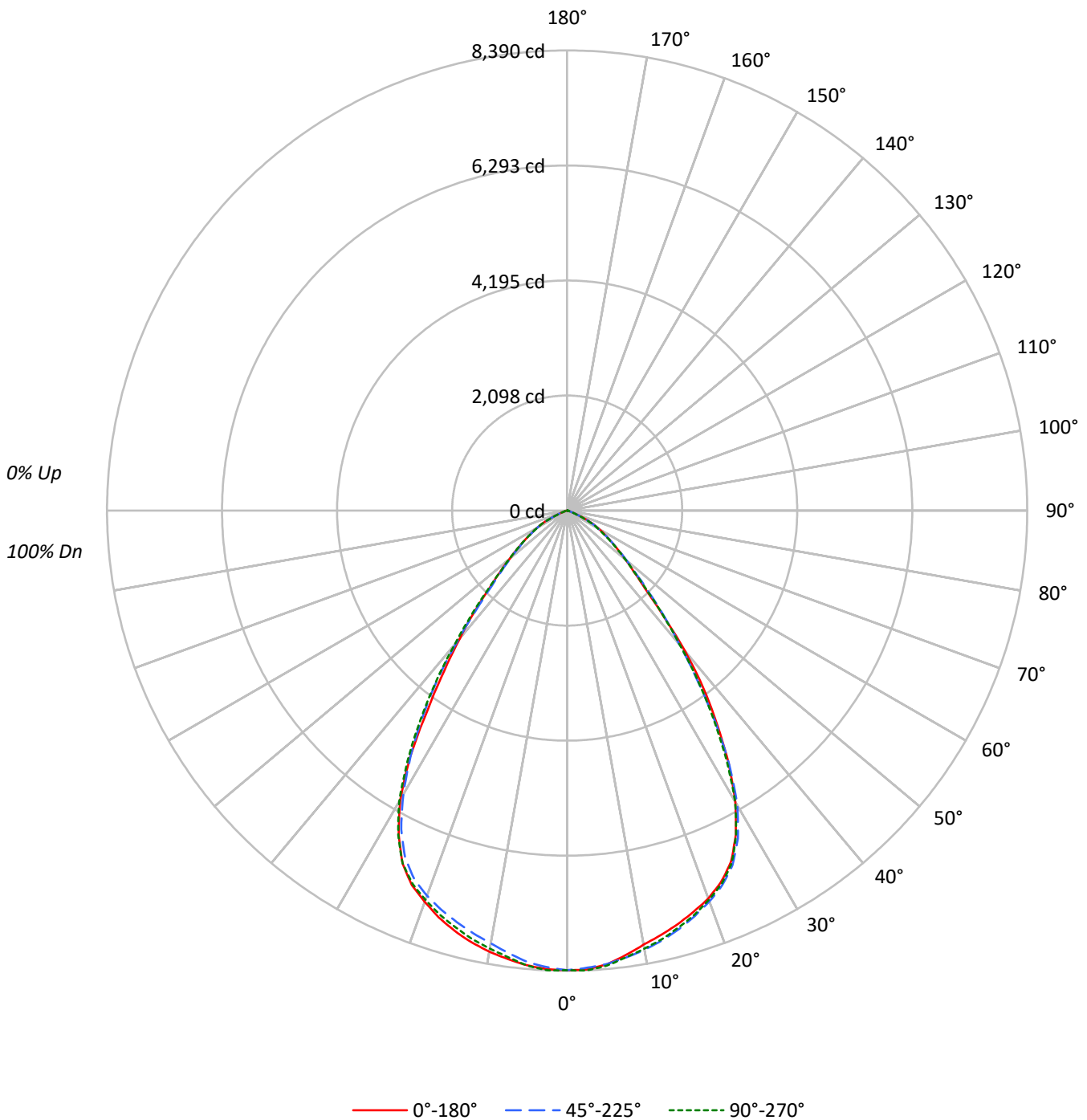
Input Watts (W): 158.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	97	96	96	94	93	91
2	105	100	95	91	103	98	93	90	94	91	88	91	88	86	89	86	84	82
3	99	91	85	80	97	90	84	80	87	82	78	84	80	77	82	79	76	74
4	92	83	77	72	90	82	76	71	80	75	70	78	73	70	76	72	69	67
5	87	77	70	65	85	76	69	64	74	68	64	72	67	63	70	66	62	61
6	81	71	64	59	80	70	63	58	68	62	58	67	61	57	65	61	57	55
7	76	65	58	53	75	65	58	53	63	57	53	62	57	53	61	56	52	51
8	72	61	54	49	71	60	54	49	59	53	49	58	52	48	57	52	48	47
9	68	57	50	45	67	56	50	45	55	49	45	54	49	45	53	48	45	43
10	64	53	46	42	63	52	46	42	52	46	42	51	45	41	50	45	41	40

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

	0°	90°	180°
0°	Luminaire represents a point source (luminous area is zero).		
5°	No luminance values can be calculated.		
10°			
15°			
20°			
25°			
30°			
35°			
40°			
45°			
50°			
55°			
60°			
65°			
70°			
75°			
80°			
85°			



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	784.9	6.5
10°-20°	2212.9	18.5
20°-30°	3208.3	26.8
30°-40°	2883.9	24.1
40°-50°	1625.1	13.6
50°-60°	865.9	7.2
60°-70°	346.1	2.9
70°-80°	46.1	0.4
80°-90°	10.9	0.1
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°	6206.2	51.8
0°-40°	9090.0	75.9
0°-60°	11581.0	96.6
0°-90°	11984.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11984.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	8380	8380	8380	8380	8380	
5°	8305	8298	8329	8263	8324	784
15°	7803	7894	7866	7769	7932	2202
25°	7068	7134	7096	6986	7101	3208
35°	4774	4706	4668	4603	4434	2962
45°	1996	2104	2048	1951	2002	1639
55°	971	974	953	931	945	885
65°	374	356	330	320	334	370
75°	30	38	36	35	30	44
85°	2	9	4	12	3	4
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	8380.2	8380.2	8380.2	8380.2	8380.2	8380.2	8380.2	8380.2	8380.2
2.5°	8374.3	8356.6	8343.4	8368.4	8390.5	8330.1	8334.5	8361.1	8369.9
5°	8305.1	8288.9	8297.7	8318.3	8328.6	8252.8	8263.1	8308.0	8324.2
7.5°	8175.4	8187.9	8219.6	8246.1	8215.2	8126.1	8140.8	8218.1	8249.8
10°	8034.7	8064.2	8130.5	8161.4	8109.1	7994.9	8011.9	8115.7	8165.8
12.5°	7922.7	7955.2	8024.4	8048.0	8001.6	7878.5	7896.2	8003.8	8063.4
15°	7803.4	7832.9	7894.0	7913.2	7866.0	7752.6	7768.8	7871.9	7931.6
17.5°	7668.6	7694.4	7748.9	7766.6	7725.3	7605.2	7631.0	7726.8	7779.1
20°	7526.4	7544.8	7583.1	7593.5	7553.7	7463.1	7474.9	7557.4	7591.2
22.5°	7332.7	7356.3	7391.6	7402.7	7365.8	7266.4	7277.4	7358.5	7395.3
25°	7068.2	7102.8	7134.5	7148.5	7095.5	6963.6	6985.7	7055.0	7101.4
27.5°	6657.9	6685.9	6741.9	6743.4	6670.4	6533.4	6551.8	6641.0	6652.7
30°	6130.5	6156.2	6205.6	6194.5	6124.6	5961.8	5976.5	6063.4	6083.3
32.5°	5484.4	5494.0	5507.2	5503.6	5418.1	5341.5	5311.3	5321.6	5329.0
35°	4774.3	4791.2	4705.8	4659.4	4667.5	4674.1	4602.6	4496.6	4433.9
37.5°	4086.2	4005.2	3899.9	3863.8	3930.8	3952.9	3888.1	3729.7	3671.5
40°	3338.5	3266.3	3183.1	3189.7	3188.3	3203.7	3122.0	3063.8	3043.9
42.5°	2569.5	2570.2	2624.7	2587.1	2579.8	2472.2	2440.5	2473.0	2508.3
45°	1995.6	2061.9	2103.9	2092.8	2047.9	1951.4	1951.4	2008.1	2001.5
47.5°	1642.7	1666.3	1698.0	1695.8	1663.4	1592.7	1604.4	1643.5	1663.4
50°	1388.6	1398.9	1413.6	1401.1	1381.2	1337.0	1336.3	1363.6	1375.3
52.5°	1161.7	1167.6	1163.9	1157.3	1146.2	1122.7	1115.3	1138.1	1141.1
55°	970.9	982.0	973.9	955.4	953.2	931.9	931.1	949.6	945.1
57.5°	808.8	797.8	786.7	771.3	769.1	762.4	769.8	772.8	768.3
60°	673.3	674.0	652.7	637.9	636.5	626.9	637.2	645.3	645.3
62.5°	542.2	539.2	526.0	503.9	507.6	503.9	508.3	509.8	503.1
65°	373.5	374.2	355.8	329.3	330.0	327.1	320.4	330.8	333.7
67.5°	198.9	197.4	183.4	173.9	170.2	171.6	179.0	181.2	173.1
70°	108.3	104.6	107.6	97.2	99.4	95.8	99.4	105.3	103.1
72.5°	55.2	58.9	53.0	48.6	54.5	53.8	62.6	57.5	51.6
75°	29.5	31.7	37.6	34.6	36.1	34.6	35.4	33.1	29.5
77.5°	21.4	23.6	27.3	26.5	25.8	24.3	27.3	30.2	24.3
80°	12.5	15.5	16.9	19.9	17.7	19.9	22.8	18.4	14.7
82.5°	8.1	12.5	12.5	13.3	19.2	12.5	20.6	18.4	14.7
85°	1.5	2.2	8.8	5.2	4.4	13.3	12.5	9.6	2.9
87.5°	0.0	5.2	11.8	5.9	9.6	8.8	12.5	13.3	2.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)