

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: P247796

Luminaire Tested: **LSR8B150D010 EC8B1509727 8LBWOLI**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247796  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-69)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSR8B150D010 EC8B1509727 8LBW0LI  
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
97 CRI 2700 CCT WITH SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11927.0 lumens  
Efficiency: N/A  
Efficacy: 75.2 lumens/watt  
Spacing Criteria (0/90/45): 1.14 / 1.14 / 1.07  
Luminous Opening: Point Source (0' x 0' x 0')  
CIE Type: Direct

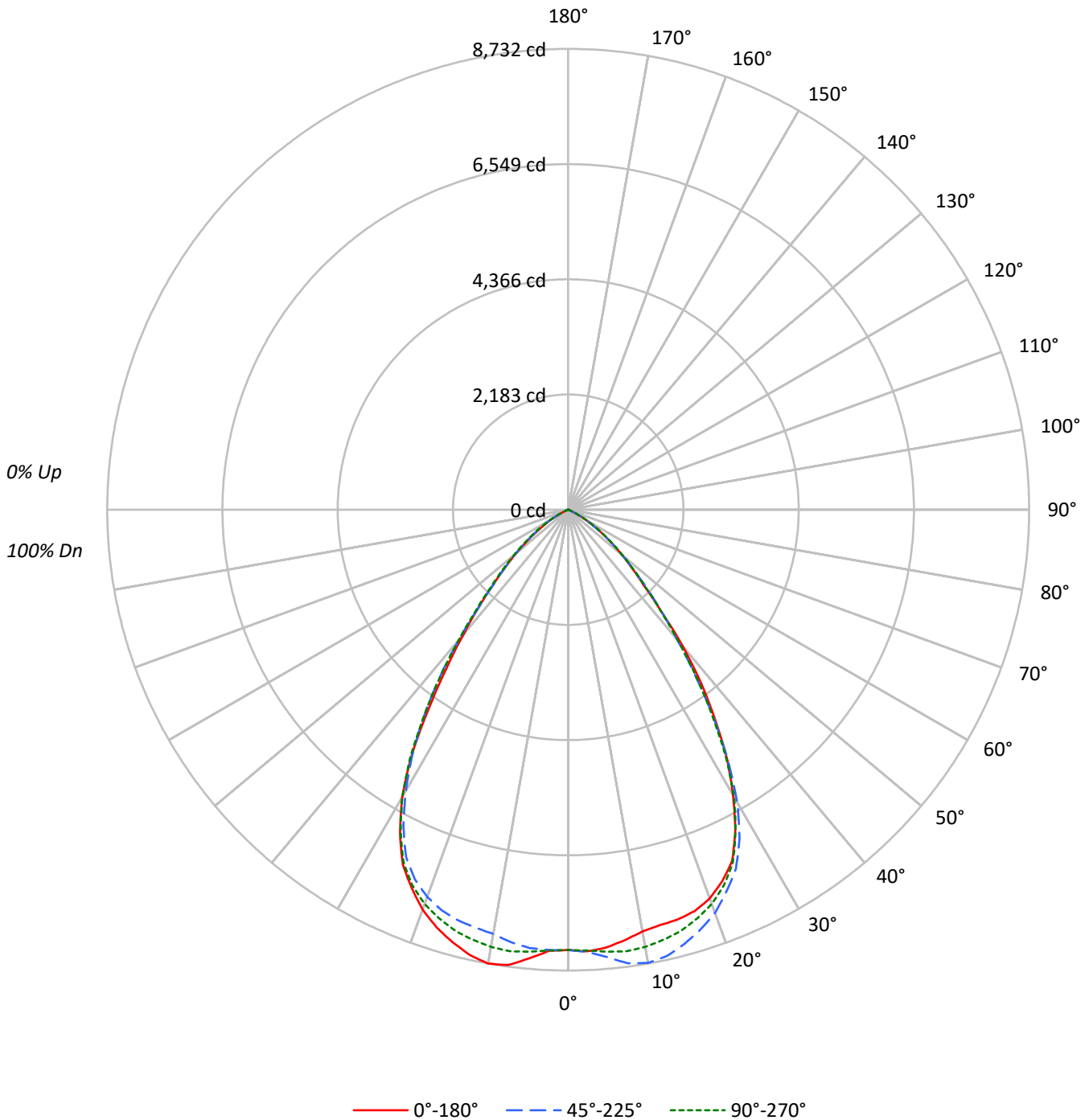
Input Watts (W): 158.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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	100	100			
1	113	110	107	104	110	107	105	103	103	101	99	100	98	96	96	95	94	92	92	92	92			
2	106	100	96	92	104	99	94	91	95	92	89	92	89	87	90	87	85	83	83	83	83			
3	100	92	86	82	97	91	85	81	88	84	80	86	82	79	83	80	77	76	76	76	76			
4	93	85	78	73	92	84	78	73	81	76	72	79	75	71	77	74	70	69	69	69	69			
5	88	78	71	66	86	77	71	66	75	70	65	73	69	65	72	68	64	63	63	63	63			
6	82	72	65	60	81	71	65	60	70	64	60	68	63	59	67	62	59	57	57	57	57			
7	78	67	60	55	76	66	60	55	65	59	55	64	58	54	62	58	54	53	53	53	53			
8	73	62	55	51	72	62	55	51	60	55	50	59	54	50	58	54	50	48	48	48	48			
9	69	58	51	47	68	58	51	47	57	51	47	56	50	46	55	50	46	45	45	45	45			
10	65	54	48	43	64	54	48	43	53	47	43	52	47	43	51	46	43	41	41	41	41			

**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°	803.9	6.7
10°-20°	2328.1	19.5
20°-30°	3339.4	28.0
30°-40°	2946.8	24.7
40°-50°	1631.6	13.7
50°-60°	719.0	6.0
60°-70°	145.3	1.2
70°-80°	10.9	0.1
80°-90°	2.0	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°	6471.4	54.3
0°-40°	9418.2	79.0
0°-60°	11768.8	98.7
0°-90°	11927.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11927.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	8342	8342	8342	8342	8342	
5°	8327	8510	8406	8338	8535	787
15°	8038	8516	8260	8058	8480	2268
25°	7347	7512	7378	7267	7417	3319
35°	4850	4781	4746	4750	4602	3009
45°	2018	2104	2067	1990	2000	1643
55°	788	784	810	769	736	722
65°	102	110	127	116	107	141
75°	10	10	8	8	12	10
85°	8	4	2	6	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°	8341.7	8341.7	8341.7	8341.7	8341.7	8341.7	8341.7	8341.7	8341.7
2.5°	8376.5	8341.7	8387.6	8359.1	8361.2	8318.0	8352.1	8384.8	8366.7
5°	8327.0	8359.1	8510.2	8506.0	8405.7	8275.5	8337.5	8486.5	8535.2
7.5°	8224.7	8340.3	8668.2	8698.2	8440.5	8166.2	8267.2	8577.7	8701.7
10°	8113.3	8279.7	8720.5	8778.9	8412.0	8050.6	8164.8	8556.1	8732.3
12.5°	8059.7	8220.5	8659.9	8716.3	8346.5	7994.9	8110.5	8474.0	8637.6
15°	8038.1	8159.2	8516.4	8568.0	8259.5	7963.6	8057.6	8354.9	8480.2
17.5°	7972.6	8056.2	8338.9	8371.6	8121.6	7887.0	7960.8	8188.5	8297.8
20°	7839.6	7895.3	8132.8	8150.2	7949.0	7749.8	7806.9	7986.6	8061.1
22.5°	7620.3	7657.2	7832.7	7838.9	7707.3	7534.7	7582.0	7722.7	7750.5
25°	7346.7	7350.1	7511.7	7481.7	7378.0	7217.8	7267.3	7387.7	7417.0
27.5°	6854.4	6866.2	7029.8	6990.2	6867.6	6728.3	6759.0	6869.0	6898.2
30°	6243.7	6309.9	6404.6	6385.1	6279.9	6140.0	6146.2	6254.2	6285.5
32.5°	5601.7	5582.2	5631.0	5616.4	5562.0	5451.3	5488.2	5516.1	5523.7
35°	4850.4	4834.4	4780.8	4713.3	4746.0	4789.1	4749.5	4688.2	4602.5
37.5°	4128.4	4038.5	3934.1	3863.8	3980.0	4025.3	3986.3	3853.3	3784.4
40°	3362.4	3267.7	3211.3	3193.9	3228.7	3262.2	3218.3	3153.5	3085.3
42.5°	2593.0	2592.3	2606.2	2602.8	2579.1	2531.0	2496.2	2524.1	2512.9
45°	2017.9	2049.2	2103.5	2112.6	2067.3	1997.0	1990.0	2016.5	2000.5
47.5°	1642.6	1653.7	1673.2	1701.1	1675.3	1639.8	1621.7	1630.0	1615.4
50°	1324.4	1327.1	1336.2	1357.1	1347.3	1323.0	1305.6	1295.1	1289.5
52.5°	1040.3	1034.0	1041.0	1047.9	1061.2	1045.1	1030.5	1008.2	990.8
55°	787.5	782.6	784.0	789.6	810.5	792.4	768.7	754.1	736.0
57.5°	571.7	555.6	559.1	577.9	597.4	589.8	568.9	545.2	522.9
60°	385.1	381.6	380.9	401.1	415.7	412.9	389.2	371.8	364.2
62.5°	227.7	225.6	231.2	240.2	257.6	245.1	229.1	220.0	217.2
65°	102.4	107.2	110.0	117.0	127.4	124.6	115.6	105.8	107.2
67.5°	44.6	34.1	38.3	43.2	40.4	42.5	37.6	39.7	38.3
70°	21.6	23.0	21.6	27.2	25.1	26.5	21.6	25.8	20.2
72.5°	15.3	13.2	16.7	19.5	16.7	19.5	17.4	13.2	10.4
75°	10.4	6.3	10.4	6.3	7.7	11.1	8.4	11.1	12.5
77.5°	1.4	4.9	2.1	2.8	1.4	3.5	3.5	2.1	6.3
80°	1.4	2.1	1.4	2.8	4.2	0.7	2.8	6.3	0.0
82.5°	4.9	0.0	0.7	0.0	0.7	1.4	0.0	1.4	0.0
85°	7.7	2.1	4.2	9.7	2.1	4.2	6.3	2.8	2.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.7	0.0	2.1	4.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)