

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: P247913

Luminaire Tested: **LSR8B150D010 EC8B150830 8LBW0H**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247913  
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 EC8B150830 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: 15644.0 lumens  
Efficiency: N/A  
Efficacy: 98.7 lumens/watt  
Spacing Criteria (0/90/45): 1.12 / 1.12 / 1.06  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

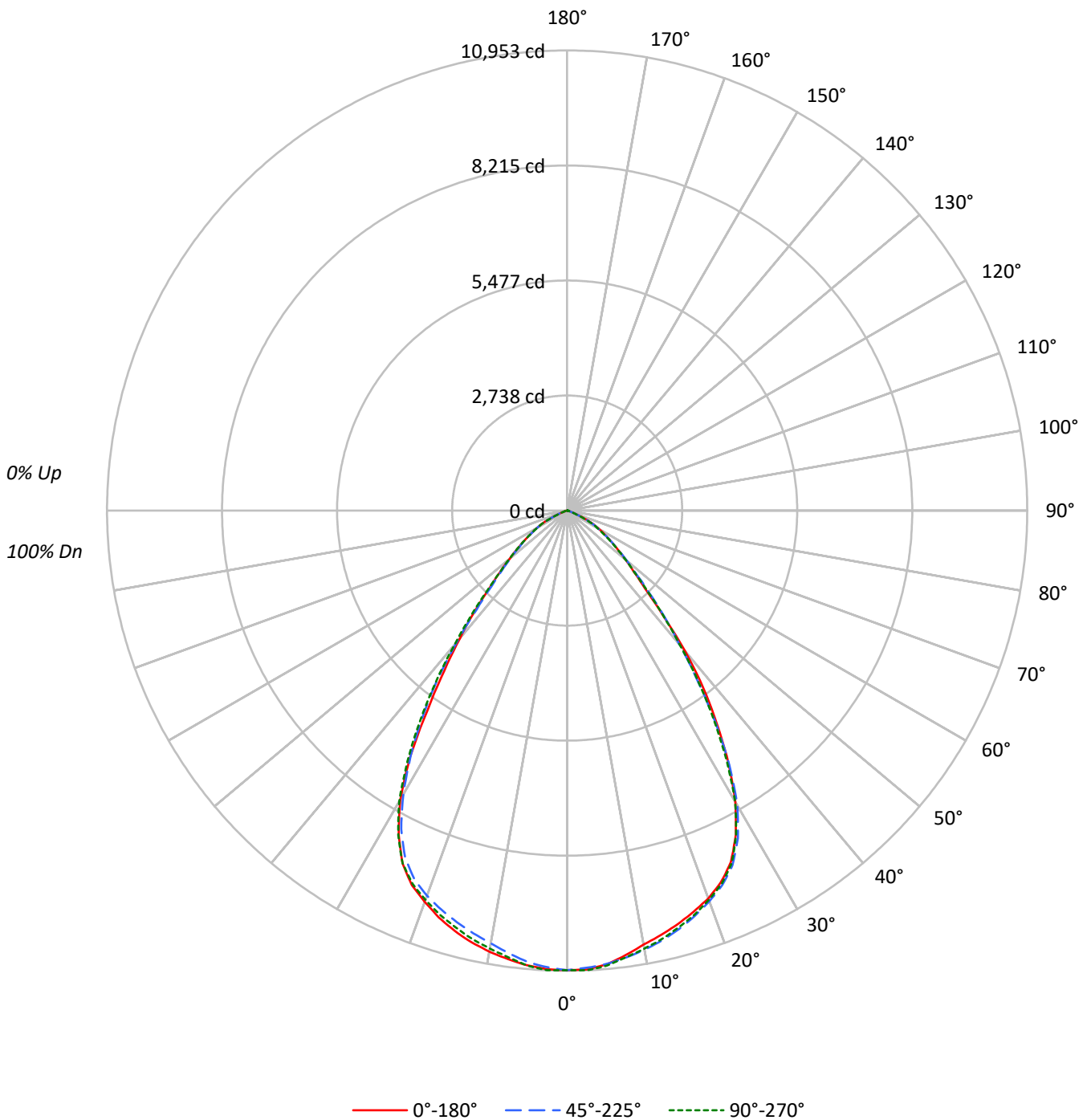
Input Watts (W): 158.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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

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

	0°	90°	180°
0°	337337	337337	337337
5°	335589	336542	336363
10°	328419	331460	333777
15°	325198	327809	330539
20°	322411	323579	325190
25°	313937	315148	315410
30°	284950	284679	282760
35°	234614	229362	217888
40°	175431	167537	159949
45°	113606	116585	113942
50°	86960	86500	86130
55°	68137	66901	66331
60°	54204	51244	51953
65°	35578	31433	31784
70°	12749	11703	12135
75°	4587	5612	4587
80°	2895	4102	3410
85°	672	2052	1344



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1024.7	6.5
10°-20°	2888.7	18.5
20°-30°	4188.2	26.8
30°-40°	3764.6	24.1
40°-50°	2121.4	13.6
50°-60°	1130.3	7.2
60°-70°	451.8	2.9
70°-80°	60.2	0.4
80°-90°	14.2	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°	8101.6	51.8
0°-40°	11866.2	75.9
0°-60°	15117.9	96.6
0°-90°	15644.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	15644.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	10940	10940	10940	10940	10940	
5°	10842	10832	10872	10787	10866	###
15°	10187	10305	10268	10141	10354	2874
25°	9227	9314	9262	9119	9270	4188
35°	6232	6143	6093	6008	5788	3867
45°	2605	2746	2673	2547	2613	2140
55°	1267	1271	1244	1216	1234	1155
65°	488	464	431	418	436	483
75°	38	49	47	46	38	57
85°	2	12	6	16	4	6
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°	10939.6	10939.6	10939.6	10939.6	10939.6	10939.6	10939.6	10939.6	10939.6
2.5°	10931.9	10908.8	10891.5	10924.2	10953.0	10874.2	10880.0	10914.6	10926.1
5°	10841.5	10820.3	10831.9	10858.8	10872.3	10773.2	10786.7	10845.3	10866.5
7.5°	10672.2	10688.6	10729.9	10764.6	10724.2	10607.8	10627.1	10728.0	10769.4
10°	10488.6	10527.0	10613.6	10654.0	10585.7	10436.6	10458.8	10594.4	10659.7
12.5°	10342.4	10384.7	10475.1	10505.9	10445.3	10284.7	10307.8	10448.2	10526.1
15°	10186.6	10225.1	10304.9	10329.9	10268.4	10120.3	10141.4	10276.1	10353.9
17.5°	10010.6	10044.3	10115.5	10138.5	10084.7	9927.9	9961.6	10086.6	10154.9
20°	9825.0	9849.1	9899.1	9912.6	9860.6	9742.3	9757.7	9865.4	9909.7
22.5°	9572.1	9602.9	9649.1	9663.5	9615.4	9485.6	9500.0	9605.8	9653.9
25°	9226.9	9272.1	9313.5	9331.7	9262.5	9090.4	9119.2	9209.6	9270.2
27.5°	8691.3	8727.8	8800.9	8802.8	8707.6	8528.8	8552.8	8669.2	8684.5
30°	8002.7	8036.4	8100.8	8086.4	7995.1	7782.5	7801.8	7915.2	7941.2
32.5°	7159.4	7171.9	7189.2	7184.4	7072.8	6972.8	6933.4	6946.9	6956.5
35°	6232.4	6254.5	6142.9	6082.4	6092.9	6101.6	6008.3	5869.8	5788.1
37.5°	5334.2	5228.4	5090.9	5043.8	5131.3	5160.1	5075.5	4868.8	4792.8
40°	4358.1	4263.9	4155.2	4163.9	4162.0	4182.2	4075.4	3999.4	3973.5
42.5°	3354.2	3355.2	3426.3	3377.3	3367.7	3227.3	3185.9	3228.2	3274.4
45°	2605.1	2691.6	2746.4	2732.0	2673.4	2547.4	2547.4	2621.4	2612.8
47.5°	2144.5	2175.2	2216.6	2213.7	2171.4	2079.1	2094.4	2145.4	2171.4
50°	1812.7	1826.1	1845.4	1829.0	1803.1	1745.4	1744.4	1780.0	1795.4
52.5°	1516.5	1524.2	1519.4	1510.7	1496.3	1465.5	1455.9	1485.7	1489.6
55°	1267.4	1281.9	1271.3	1247.2	1244.4	1216.5	1215.5	1239.6	1233.8
57.5°	1055.9	1041.5	1027.0	1006.8	1003.9	995.3	1004.9	1008.8	1003.0
60°	878.9	879.9	852.0	832.8	830.9	818.4	831.8	842.4	842.4
62.5°	707.8	703.9	686.6	657.8	662.6	657.8	663.5	665.5	656.8
65°	487.6	488.5	464.5	429.9	430.8	427.0	418.3	431.8	435.6
67.5°	259.6	257.7	239.4	226.9	222.1	224.1	233.7	236.6	226.0
70°	141.4	136.6	140.4	126.9	129.8	125.0	129.8	137.5	134.6
72.5°	72.1	76.9	69.2	63.5	71.2	70.2	81.7	75.0	67.3
75°	38.5	41.4	49.0	45.2	47.1	45.2	46.2	43.3	38.5
77.5°	27.9	30.8	35.6	34.6	33.7	31.7	35.6	39.4	31.7
80°	16.3	20.2	22.1	26.0	23.1	26.0	29.8	24.0	19.2
82.5°	10.6	16.3	16.3	17.3	25.0	16.3	26.9	24.0	19.2
85°	1.9	2.9	11.5	6.7	5.8	17.3	16.3	12.5	3.8
87.5°	0.0	6.7	15.4	7.7	12.5	11.5	16.3	17.3	3.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)