

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: P247772

Luminaire Tested: **LSR8B150D010 EC8B150835 8LBW0LI**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247772  
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 EC8B150835 8LBW0LI  
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
80 CRI 3500 CCT WITH SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 17129.0 lumens  
Efficiency: N/A  
Efficacy: 108.1 lumens/watt  
Spacing Criteria (0/90/45): 1.14 / 1.14 / 1.07  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

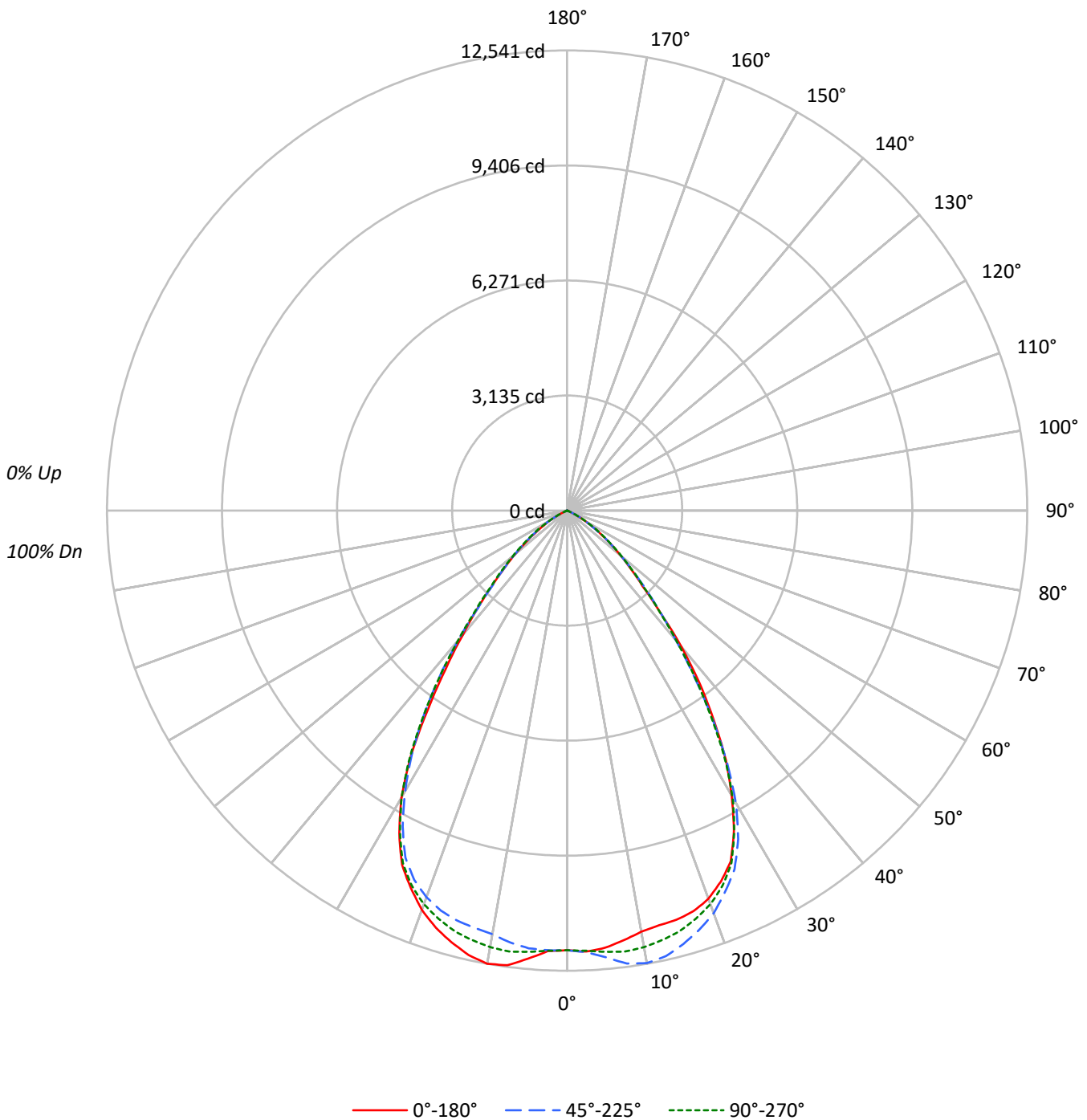
Input Watts (W): 158.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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

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

	0°	90°	180°
0°	369416	369416	369416
5°	370177	373675	379432
10°	364844	378277	392681
15°	368529	378681	388800
20°	369464	374616	379900
25°	358985	360516	362421
30°	319282	321133	321418
35°	262229	256583	248828
40°	194386	186658	178365
45°	126379	129476	125289
50°	91244	92827	88846
55°	60804	62578	56826
60°	34105	36819	32255
65°	10726	13353	11237
70°	2795	3246	2615
75°	1787	1311	2145
80°	355	1065	0
85°	3892	1061	1415



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1154.5	6.7
10°-20°	3343.5	19.5
20°-30°	4795.9	28.0
30°-40°	4232.1	24.7
40°-50°	2343.2	13.7
50°-60°	1032.6	6.0
60°-70°	208.6	1.2
70°-80°	15.6	0.1
80°-90°	2.9	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°	9293.9	54.3
0°-40°	13526.0	79.0
0°-60°	16901.9	98.7
0°-90°	17129.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	17129.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	11980	11980	11980	11980	11980	
5°	11959	12222	12072	11974	12258	###
15°	11544	12231	11862	11572	12179	3257
25°	10551	10788	10596	10437	10652	4766
35°	6966	6866	6816	6821	6610	4321
45°	2898	3021	2969	2858	2873	2360
55°	1131	1126	1164	1104	1057	1037
65°	147	158	183	166	154	203
75°	15	15	11	12	18	15
85°	11	6	3	9	4	5
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°	11979.9	11979.9	11979.9	11979.9	11979.9	11979.9	11979.9	11979.9	11979.9
2.5°	12029.9	11979.9	12045.9	12004.9	12007.9	11945.9	11994.9	12041.9	12015.9
5°	11958.9	12004.9	12221.9	12215.9	12071.9	11884.9	11973.9	12187.9	12257.9
7.5°	11811.9	11977.9	12448.9	12491.9	12121.9	11727.9	11872.9	12318.9	12496.9
10°	11651.9	11890.9	12523.9	12607.9	12080.9	11561.9	11725.9	12287.9	12540.9
12.5°	11574.9	11805.9	12436.9	12517.9	11986.9	11481.9	11647.9	12169.9	12404.9
15°	11543.9	11717.9	12230.9	12304.9	11861.9	11436.9	11571.9	11998.9	12178.9
17.5°	11449.9	11569.9	11975.9	12022.9	11663.9	11326.9	11432.9	11759.9	11916.9
20°	11258.9	11338.9	11679.9	11704.9	11415.9	11129.9	11211.9	11469.9	11576.9
22.5°	10943.9	10996.9	11248.9	11257.9	11068.9	10820.9	10888.9	11090.9	11130.9
25°	10550.9	10555.9	10787.9	10744.9	10595.9	10365.9	10436.9	10609.9	10651.9
27.5°	9843.9	9860.9	10095.9	10038.9	9862.9	9662.9	9706.9	9864.9	9906.9
30°	8966.9	9061.9	9197.9	9169.9	9018.9	8817.9	8826.9	8981.9	9026.9
32.5°	8044.9	8016.9	8086.9	8065.9	7987.9	7828.9	7881.9	7921.9	7932.9
35°	6966.0	6943.0	6866.0	6769.0	6816.0	6878.0	6821.0	6733.0	6610.0
37.5°	5929.0	5800.0	5650.0	5549.0	5716.0	5781.0	5725.0	5534.0	5435.0
40°	4829.0	4693.0	4612.0	4587.0	4637.0	4685.0	4622.0	4529.0	4431.0
42.5°	3724.0	3723.0	3743.0	3738.0	3704.0	3635.0	3585.0	3625.0	3609.0
45°	2898.0	2943.0	3021.0	3034.0	2969.0	2868.0	2858.0	2896.0	2873.0
47.5°	2359.0	2375.0	2403.0	2443.0	2406.0	2355.0	2329.0	2341.0	2320.0
50°	1902.0	1906.0	1919.0	1949.0	1935.0	1900.0	1875.0	1860.0	1852.0
52.5°	1494.0	1485.0	1495.0	1505.0	1524.0	1501.0	1480.0	1448.0	1423.0
55°	1131.0	1124.0	1126.0	1134.0	1164.0	1138.0	1104.0	1083.0	1057.0
57.5°	821.0	798.0	803.0	830.0	858.0	847.0	817.0	783.0	751.0
60°	553.0	548.0	547.0	576.0	597.0	593.0	559.0	534.0	523.0
62.5°	327.0	324.0	332.0	345.0	370.0	352.0	329.0	316.0	312.0
65°	147.0	154.0	158.0	168.0	183.0	179.0	166.0	152.0	154.0
67.5°	64.0	49.0	55.0	62.0	58.0	61.0	54.0	57.0	55.0
70°	31.0	33.0	31.0	39.0	36.0	38.0	31.0	37.0	29.0
72.5°	22.0	19.0	24.0	28.0	24.0	28.0	25.0	19.0	15.0
75°	15.0	9.0	15.0	9.0	11.0	16.0	12.0	16.0	18.0
77.5°	2.0	7.0	3.0	4.0	2.0	5.0	5.0	3.0	9.0
80°	2.0	3.0	2.0	4.0	6.0	1.0	4.0	9.0	0.0
82.5°	7.0	0.0	1.0	0.0	1.0	2.0	0.0	2.0	0.0
85°	11.0	3.0	6.0	14.0	3.0	6.0	9.0	4.0	4.0
87.5°	0.0	0.0	0.0	0.0	0.0	1.0	0.0	3.0	6.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)