

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: P248126

Luminaire Tested: **LSR8B150D010 EC8B150827 8LBS0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248126
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-94)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B150D010 EC8B150827 8LBS0WH
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 2700 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16952.0 lumens
Efficiency: N/A
Efficacy: 107.0 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.23
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

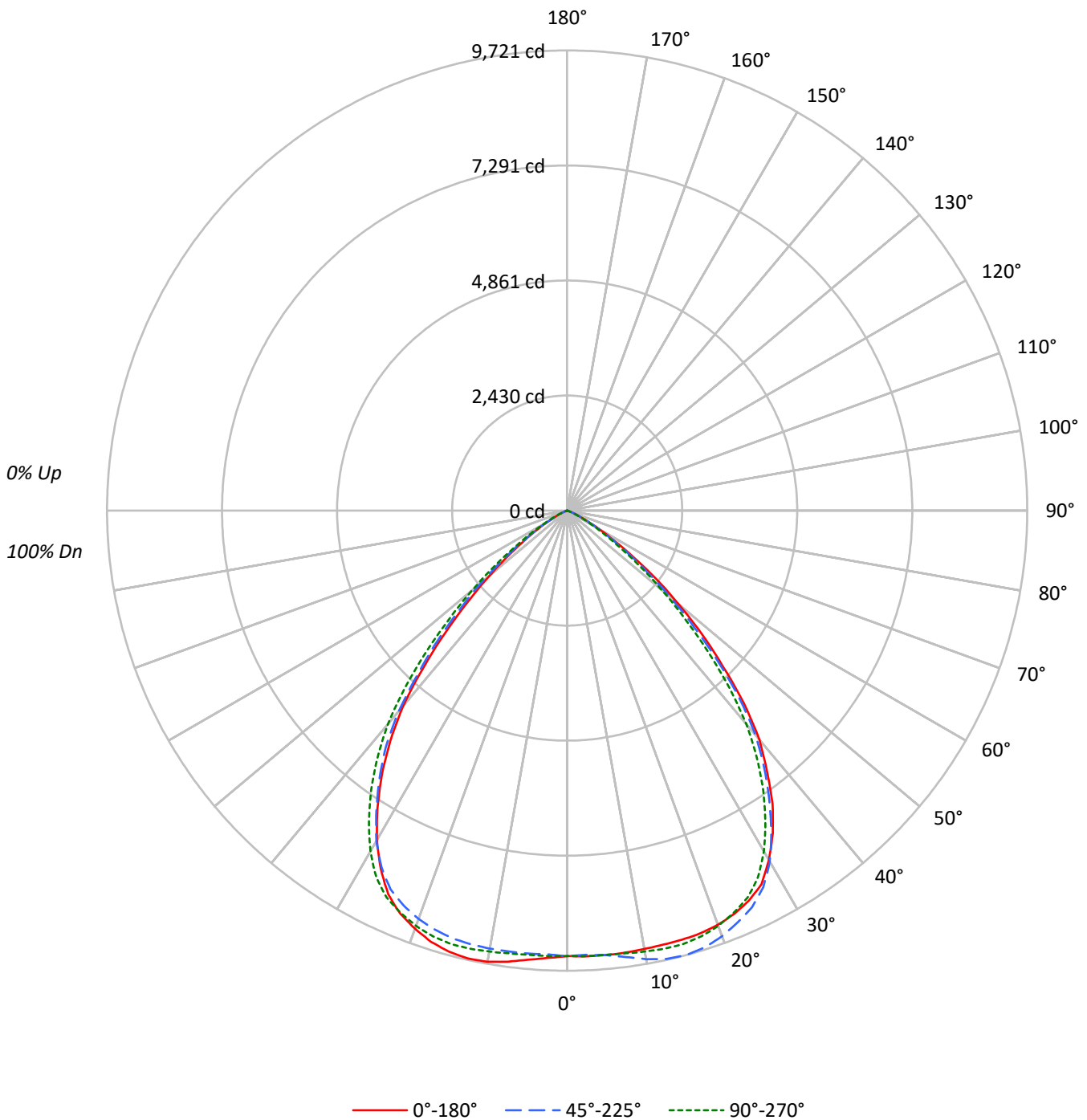
Input Watts (W): 158.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	103	110	107	104	102	103	101	99	99	97	96	96	94	93	91					91			
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	86	84	82					82			
3	98	90	84	79	96	89	83	79	86	81	78	84	80	76	81	78	75	73					73			
4	92	82	76	71	90	81	75	70	79	74	69	77	72	68	75	71	68	66					66			
5	86	75	68	63	84	74	68	63	72	67	62	71	66	62	69	65	61	59					59			
6	80	69	62	57	78	68	61	56	67	61	56	65	60	56	64	59	55	53					53			
7	75	64	56	51	73	63	56	51	62	55	51	60	55	50	59	54	50	48					48			
8	70	59	52	47	69	58	51	46	57	51	46	56	50	46	55	50	46	44					44			
9	66	54	47	43	65	54	47	43	53	47	42	52	46	42	51	46	42	40					40			
10	62	51	44	39	61	50	44	39	49	43	39	48	43	39	48	42	39	37					37			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	290204	290204	290204
5°	291749	291544	294767
10°	294446	296209	302994
15°	299601	302599	307927
20°	305566	306367	308461
25°	309289	306959	304278
30°	303465	296052	286096
35°	284703	272028	257159
40°	254333	237112	217098
45°	202830	182583	158240
50°	146936	125425	102158
55°	91136	74137	58605
60°	46865	36856	29449
65°	19985	14987	11499
70°	6347	3129	2029
75°	1680	1001	1001
80°	1332	835	675
85°	991	318	318



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	902.4	5.3
10°-20°	2685.7	15.8
20°-30°	4128.2	24.4
30°-40°	4462.6	26.3
40°-50°	3211.2	18.9
50°-60°	1295.8	7.6
60°-70°	249.2	1.5
70°-80°	14.8	0.1
80°-90°	2.1	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°	7716.4	45.5
0°-40°	12178.9	71.8
0°-60°	16685.9	98.4
0°-90°	16952.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	16952.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	9411	9411	9411	9411	9411	
5°	9425	9428	9419	9391	9523	899
15°	9385	9721	9479	9354	9646	2656
25°	9090	9246	9022	8828	8943	4170
35°	7563	7443	7226	6914	6831	4683
45°	4651	4513	4187	3843	3629	3593
55°	1695	1568	1379	1191	1090	1580
65°	274	280	205	160	158	320
75°	14	11	8	8	8	24
85°	3	2	1	1	1	3
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°	9411.1	9411.1	9411.1	9411.1	9411.1	9411.1	9411.1	9411.1	9411.1
2.5°	9425.2	9412.0	9393.3	9392.3	9422.4	9405.5	9384.8	9406.4	9459.9
5°	9425.2	9427.1	9428.0	9419.6	9418.6	9390.5	9391.4	9449.6	9522.7
7.5°	9418.6	9455.2	9512.4	9499.3	9433.6	9371.7	9397.0	9514.3	9611.9
10°	9403.6	9489.0	9620.3	9600.6	9459.9	9354.8	9395.2	9558.4	9676.6
12.5°	9390.5	9507.7	9701.9	9678.5	9481.5	9343.6	9383.9	9564.0	9691.6
15°	9384.8	9511.5	9720.7	9691.6	9478.7	9321.1	9353.9	9522.7	9645.6
17.5°	9364.2	9482.4	9673.8	9638.1	9429.9	9268.5	9282.6	9436.4	9552.8
20°	9311.7	9413.0	9569.6	9520.9	9336.1	9173.8	9178.5	9294.8	9399.9
22.5°	9222.5	9302.3	9415.8	9368.9	9196.3	9049.0	9029.3	9126.9	9215.0
25°	9090.3	9155.0	9246.0	9195.3	9021.8	8871.7	8827.6	8889.5	8943.0
27.5°	8896.1	8918.6	8970.2	8892.3	8731.9	8584.6	8492.7	8502.1	8530.2
30°	8522.7	8559.3	8564.0	8474.9	8314.5	8143.7	8059.3	8012.4	8034.9
32.5°	8083.7	8073.4	8026.5	7918.6	7792.9	7656.8	7497.4	7443.9	7456.1
35°	7563.0	7538.6	7443.0	7339.8	7226.3	7059.3	6913.9	6835.1	6831.3
37.5°	6928.9	6896.0	6833.2	6690.6	6586.5	6445.7	6287.2	6200.0	6134.3
40°	6318.2	6266.6	6192.5	6021.7	5890.4	5694.3	5532.0	5411.0	5393.2
42.5°	5530.2	5504.8	5398.8	5227.1	5063.0	4831.3	4642.7	4541.4	4488.9
45°	4651.1	4651.1	4513.2	4362.2	4186.8	4014.2	3843.4	3692.4	3628.6
47.5°	3864.1	3766.5	3636.1	3474.8	3346.2	3224.3	3043.2	2857.5	2814.3
50°	3062.9	3001.0	2847.2	2693.3	2614.5	2498.2	2355.6	2175.5	2129.5
52.5°	2366.8	2269.3	2136.1	2021.6	1947.5	1856.5	1701.7	1578.8	1555.4
55°	1695.2	1645.4	1567.6	1473.8	1379.0	1283.3	1191.4	1121.0	1090.1
57.5°	1161.4	1144.5	1079.8	1024.4	932.5	848.1	763.6	741.1	743.0
60°	759.9	758.9	727.0	677.3	597.6	520.7	481.2	470.0	477.5
62.5°	459.7	468.1	459.7	430.6	369.6	310.5	282.4	288.0	283.3
65°	273.9	282.4	279.6	242.0	205.4	180.1	160.4	152.9	157.6
67.5°	159.5	154.8	142.6	124.8	102.3	84.4	71.3	64.7	65.7
70°	70.4	66.6	60.0	46.0	34.7	28.1	23.5	21.6	22.5
72.5°	26.3	25.3	21.6	17.8	15.0	12.2	11.3	11.3	11.3
75°	14.1	13.1	11.3	9.4	8.4	8.4	8.4	8.4	8.4
77.5°	10.3	9.4	8.4	7.5	6.6	5.6	5.6	5.6	5.6
80°	7.5	6.6	5.6	4.7	4.7	3.8	3.8	3.8	3.8
82.5°	4.7	4.7	3.8	2.8	2.8	1.9	1.9	1.9	1.9
85°	2.8	2.8	1.9	1.9	0.9	0.9	0.9	0.9	0.9
87.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)