

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: P248066

Luminaire Tested: **LSR8B150D010 EC8B150850 8LBS0WMH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248066
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-93)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B150D010 EC8B150850 8LBS0WMH
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 5000 CCT WITH WARM HAZE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17539.0 lumens
Efficiency: N/A
Efficacy: 110.7 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.22
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

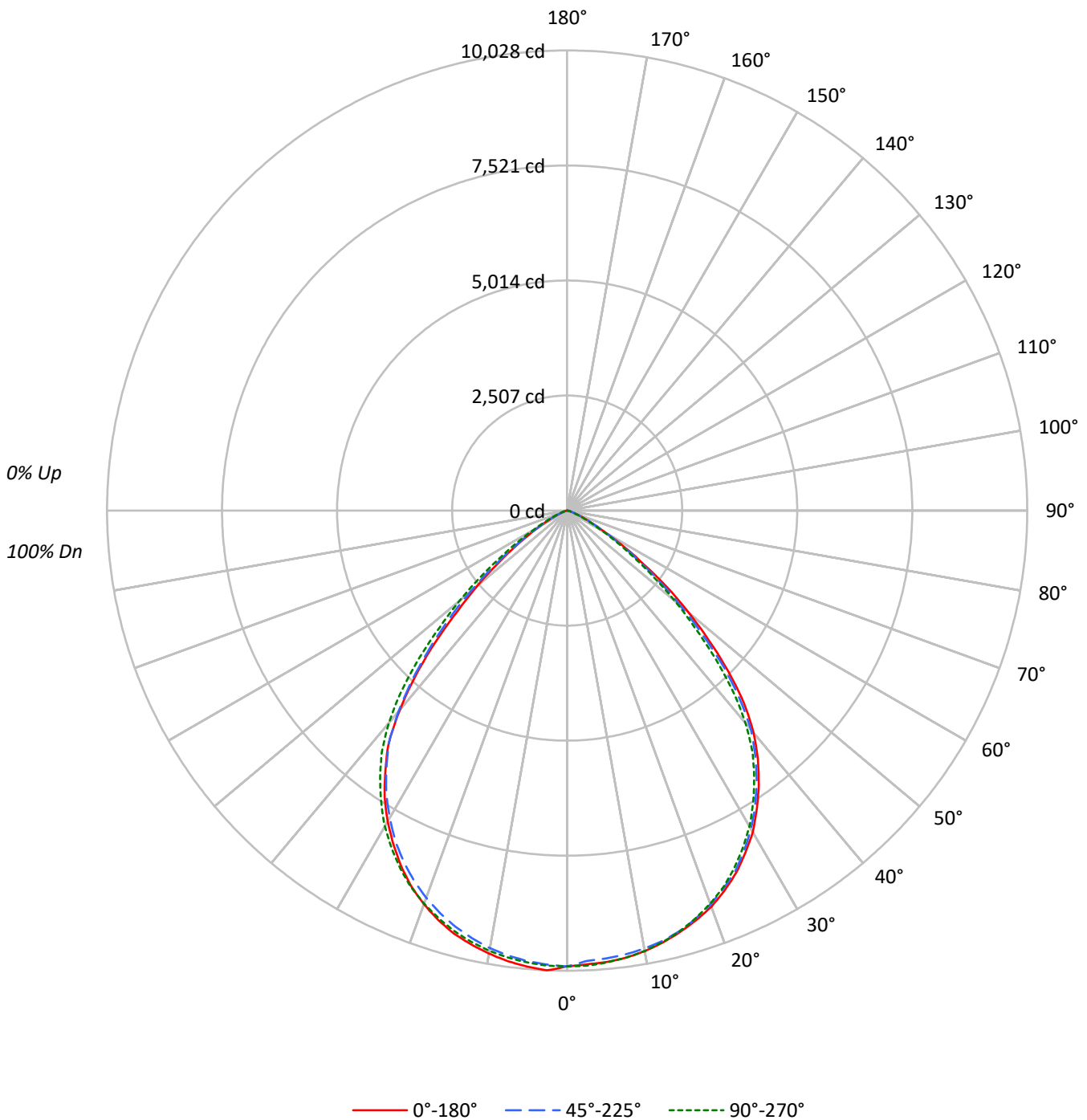
Input Watts (W): 158.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	109	106	104	101	102	100	98	99	97	95	95	94	92	90					90			
2	105	99	93	89	102	97	92	88	93	90	86	90	87	84	87	85	83	81					81			
3	97	89	83	78	95	88	82	77	85	80	76	83	78	75	80	77	74	72					72			
4	91	81	74	69	89	80	74	69	78	72	68	76	71	67	74	69	66	64					64			
5	85	74	67	61	83	73	66	61	71	65	61	69	64	60	68	63	59	58					58			
6	79	68	60	55	77	67	60	55	65	59	54	64	58	54	62	57	54	52					52			
7	74	62	55	50	72	62	55	50	60	54	49	59	53	49	58	53	49	47					47			
8	69	57	50	45	68	57	50	45	56	49	45	54	49	45	53	48	44	43					43			
9	65	53	46	41	64	53	46	41	52	45	41	51	45	41	50	44	41	39					39			
10	61	49	42	38	60	49	42	38	48	42	38	47	41	37	46	41	37	36					36			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	306325	306325	306325
5°	305706	306022	308749
10°	305276	305085	306958
15°	303515	302966	304617
20°	301484	299092	299558
25°	296394	292842	291086
30°	288069	282984	278512
35°	274125	267530	260091
40°	254558	243629	228582
45°	216977	199708	177310
50°	165218	147190	122796
55°	108915	94916	76460
60°	61161	53785	42227
65°	32075	28675	20401
70°	15345	13515	8493
75°	8685	9412	5909
80°	6659	6482	3410
85°	3927	3220	1451



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	938.1	5.3
10°-20°	2672.0	15.2
20°-30°	3947.5	22.5
30°-40°	4399.0	25.1
40°-50°	3474.1	19.8
50°-60°	1604.3	9.1
60°-70°	412.2	2.3
70°-80°	79.4	0.5
80°-90°	12.4	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°	7557.6	43.1
0°-40°	11956.7	68.2
0°-60°	17035.0	97.1
0°-90°	17539.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	17539.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	9934	9934	9934	9934	9934	
5°	9876	9797	9886	9856	9974	939
15°	9507	9485	9490	9391	9542	2683
25°	8711	8671	8607	8435	8555	4003
35°	7282	7201	7107	6870	6909	4535
45°	4976	4831	4580	4214	4066	3797
55°	2026	1909	1766	1511	1422	1877
65°	440	446	393	301	280	483
75°	73	77	79	60	50	88
85°	11	11	9	5	4	16
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°	9933.9	9933.9	9933.9	9933.9	9933.9	9933.9	9933.9	9933.9	9933.9
2.5°	9896.4	9943.0	9824.5	9920.7	9924.8	9856.9	9903.5	9959.2	10028.1
5°	9876.1	9923.7	9797.1	9886.3	9886.3	9812.3	9855.9	9904.5	9974.4
7.5°	9828.5	9880.2	9755.6	9838.7	9825.5	9744.5	9782.9	9830.6	9905.5
10°	9749.5	9813.3	9691.8	9770.8	9743.4	9650.3	9683.7	9733.3	9803.2
12.5°	9641.1	9717.1	9603.7	9672.5	9629.0	9522.6	9550.0	9613.8	9682.7
15°	9507.4	9585.4	9485.1	9544.9	9490.2	9371.7	9390.9	9455.8	9541.9
17.5°	9358.5	9434.5	9322.1	9386.9	9314.0	9191.4	9198.5	9273.4	9351.4
20°	9187.3	9250.1	9134.7	9196.5	9114.4	8979.7	8980.7	9047.6	9128.6
22.5°	8962.5	9028.3	8908.8	8960.4	8885.5	8741.6	8724.4	8789.3	8867.2
25°	8711.3	8780.1	8670.7	8689.0	8606.9	8458.0	8434.7	8482.3	8555.3
27.5°	8410.4	8478.3	8354.7	8378.0	8287.9	8145.0	8113.6	8138.9	8196.7
30°	8090.3	8132.9	8015.4	8034.6	7947.5	7778.3	7730.7	7765.2	7821.9
32.5°	7696.3	7726.7	7626.4	7636.5	7542.3	7396.5	7333.7	7343.8	7401.5
35°	7282.0	7298.2	7201.0	7203.0	7106.8	6958.9	6869.7	6864.7	6909.2
37.5°	6825.2	6836.3	6738.1	6733.0	6633.7	6473.7	6380.5	6364.3	6391.6
40°	6323.8	6339.0	6236.7	6204.2	6052.3	5870.0	5718.0	5689.7	5678.5
42.5°	5716.0	5674.5	5567.1	5512.4	5359.4	5125.5	4984.7	4942.1	4905.7
45°	4975.5	4942.1	4830.7	4707.1	4579.5	4403.2	4213.8	4097.3	4065.9
47.5°	4198.6	4159.1	3999.1	3890.7	3765.1	3684.1	3480.5	3301.2	3223.2
50°	3444.0	3400.4	3222.2	3142.1	3068.2	2947.6	2750.1	2589.1	2559.7
52.5°	2746.1	2680.2	2527.3	2444.2	2378.4	2244.7	2066.4	1973.2	1923.6
55°	2025.9	2015.7	1909.4	1849.6	1765.5	1659.2	1511.3	1441.4	1422.2
57.5°	1475.8	1438.4	1397.9	1347.2	1274.3	1140.6	1049.4	996.7	992.7
60°	991.7	1003.8	1003.8	948.1	872.1	785.0	712.1	683.7	684.7
62.5°	665.5	673.6	671.6	647.3	588.5	517.6	470.0	449.7	450.8
65°	439.6	437.6	445.7	428.5	393.0	343.4	300.8	289.7	279.6
67.5°	279.6	282.6	279.6	270.5	249.2	213.7	185.4	168.1	163.1
70°	170.2	166.1	167.1	165.1	149.9	132.7	112.4	98.3	94.2
72.5°	102.3	105.3	106.4	109.4	107.4	95.2	81.0	70.9	68.9
75°	72.9	73.9	77.0	80.0	79.0	70.9	59.8	52.7	49.6
77.5°	54.7	54.7	56.7	60.8	57.7	50.6	42.5	36.5	34.4
80°	37.5	38.5	39.5	39.5	36.5	32.4	25.3	21.3	19.2
82.5°	22.3	23.3	22.3	22.3	20.3	16.2	12.2	11.1	10.1
85°	11.1	11.1	11.1	11.1	9.1	7.1	5.1	4.1	4.1
87.5°	5.1	5.1	5.1	4.1	3.0	2.0	2.0	1.0	1.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)