

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: P248135

Luminaire Tested: **LSR8B150D010 EC8B150840 8LBS0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248135
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 EC8B150840 8LBS0WH
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 4000 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17952.0 lumens
Efficiency: N/A
Efficacy: 113.3 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

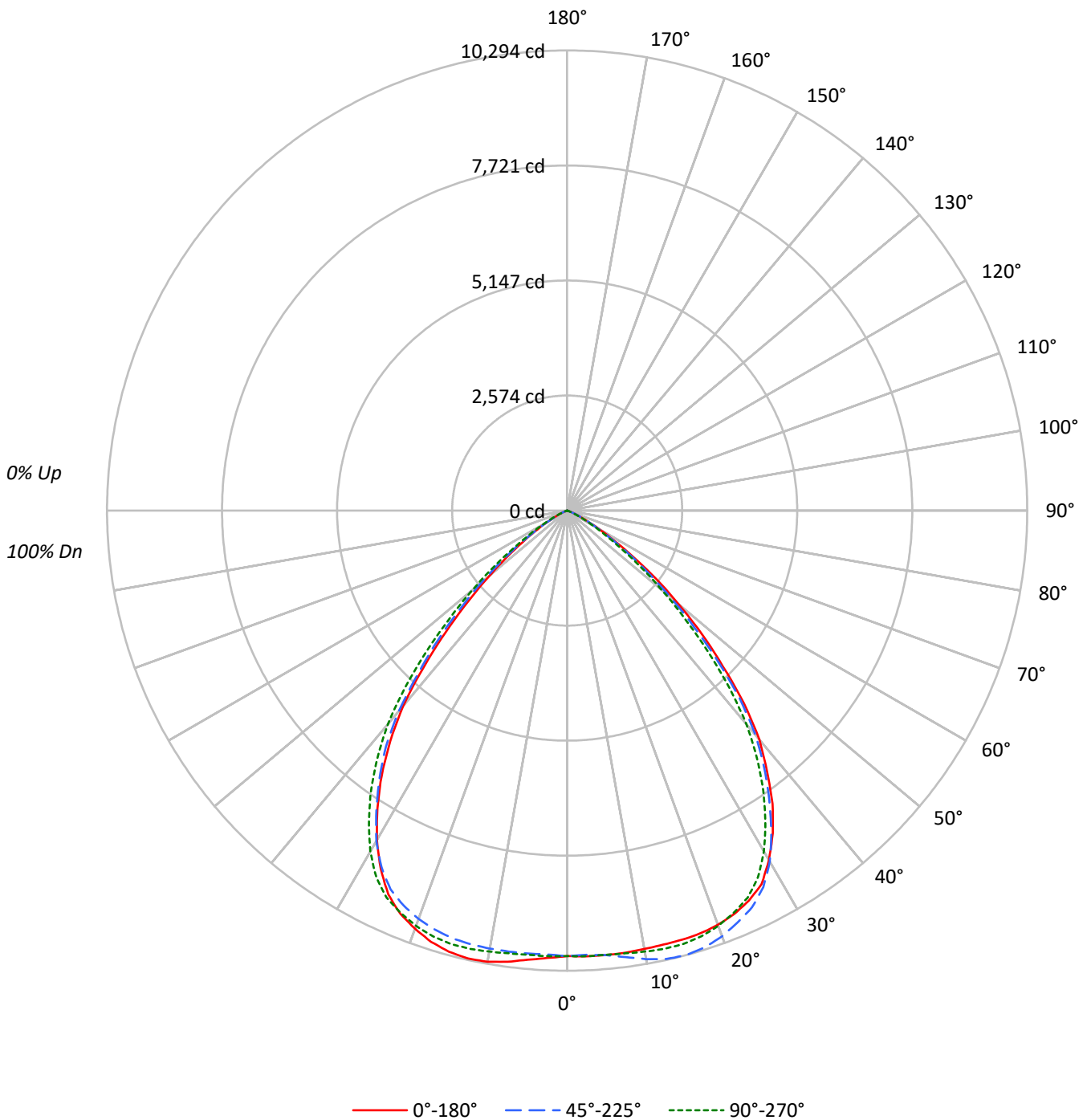
Input Watts (W): 158.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	307324	307324	307324
5°	308959	308742	312157
10°	311814	313681	320867
15°	317278	320448	326092
20°	323592	324439	326654
25°	327533	325066	322225
30°	321368	313514	302974
35°	301500	288072	272329
40°	269335	251100	229902
45°	214797	193354	167577
50°	155605	132822	108183
55°	96513	78513	62062
60°	49628	39026	31188
65°	21167	15877	12178
70°	6717	3318	2146
75°	1775	1060	1060
80°	1403	888	710
85°	1061	354	354



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	955.6	5.3
10°-20°	2844.2	15.8
20°-30°	4371.8	24.4
30°-40°	4725.8	26.3
40°-50°	3400.7	18.9
50°-60°	1372.2	7.6
60°-70°	263.8	1.5
70°-80°	15.7	0.1
80°-90°	2.2	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°	8171.5	45.5
0°-40°	12897.4	71.8
0°-60°	17670.2	98.4
0°-90°	17952.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	17952.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	9966	9966	9966	9966	9966	
5°	9981	9984	9974	9945	10084	952
15°	9938	10294	10038	9906	10215	2813
25°	9626	9791	9554	9348	9470	4416
35°	8009	7882	7652	7322	7234	4960
45°	4926	4780	4434	4070	3843	3805
55°	1795	1660	1460	1262	1154	1673
65°	290	296	218	170	167	339
75°	15	12	9	9	9	25
85°	3	2	1	1	1	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°	9966.3	9966.3	9966.3	9966.3	9966.3	9966.3	9966.3	9966.3	9966.3
2.5°	9981.2	9967.3	9947.4	9946.4	9978.2	9960.3	9938.5	9961.3	10017.9
5°	9981.2	9983.2	9984.2	9975.2	9974.2	9944.4	9945.4	10007.0	10084.5
7.5°	9974.2	10013.0	10073.6	10059.7	9990.1	9924.5	9951.4	10075.6	10178.9
10°	9958.3	10048.7	10187.8	10166.9	10017.9	9906.7	9949.4	10122.2	10247.4
12.5°	9944.4	10068.6	10274.2	10249.4	10040.8	9894.7	9937.5	10128.2	10263.3
15°	9938.5	10072.6	10294.1	10263.3	10037.8	9870.9	9905.7	10084.5	10214.6
17.5°	9916.6	10041.8	10244.4	10206.7	9986.1	9815.3	9830.2	9993.1	10116.3
20°	9861.0	9968.3	10134.2	10082.5	9886.8	9714.9	9719.9	9843.1	9954.3
22.5°	9766.6	9851.0	9971.2	9921.6	9738.8	9582.8	9561.9	9665.3	9758.6
25°	9626.5	9695.1	9791.4	9737.8	9554.0	9395.0	9348.3	9413.9	9470.5
27.5°	9420.9	9444.7	9499.4	9416.9	9247.0	9091.0	8993.7	9003.6	9033.4
30°	9025.5	9064.2	9069.2	8974.8	8804.9	8624.1	8534.7	8485.0	8508.9
32.5°	8560.5	8549.6	8499.9	8385.7	8252.6	8108.5	7939.6	7883.0	7895.9
35°	8009.2	7983.3	7882.0	7772.7	7652.5	7475.7	7321.7	7238.3	7234.3
37.5°	7337.6	7302.8	7236.3	7085.3	6975.0	6826.0	6658.1	6565.7	6496.2
40°	6690.9	6636.2	6557.8	6376.9	6237.9	6030.2	5858.4	5730.2	5711.3
42.5°	5856.4	5829.6	5717.3	5535.5	5361.6	5116.3	4916.6	4809.3	4753.6
45°	4925.5	4925.5	4779.5	4619.5	4433.8	4251.0	4070.2	3910.2	3842.7
47.5°	4092.0	3988.7	3850.6	3679.7	3543.6	3414.5	3222.7	3026.0	2980.3
50°	3243.6	3178.0	3015.1	2852.2	2768.7	2645.6	2494.5	2303.8	2255.1
52.5°	2506.5	2403.2	2262.1	2140.9	2062.4	1966.0	1802.1	1672.0	1647.1
55°	1795.2	1742.5	1660.1	1560.7	1460.4	1359.0	1261.7	1187.2	1154.4
57.5°	1229.9	1212.0	1143.5	1084.8	987.5	898.1	808.7	784.8	786.8
60°	804.7	803.7	769.9	717.3	632.8	551.4	509.6	497.7	505.7
62.5°	486.8	495.7	486.8	456.0	391.4	328.8	299.0	305.0	300.0
65°	290.1	299.0	296.0	256.3	217.6	190.7	169.9	161.9	166.9
67.5°	168.9	163.9	151.0	132.1	108.3	89.4	75.5	68.5	69.5
70°	74.5	70.5	63.6	48.7	36.8	29.8	24.8	22.8	23.8
72.5°	27.8	26.8	22.8	18.9	15.9	12.9	11.9	11.9	11.9
75°	14.9	13.9	11.9	9.9	8.9	8.9	8.9	8.9	8.9
77.5°	10.9	9.9	8.9	7.9	7.0	6.0	6.0	6.0	6.0
80°	7.9	7.0	6.0	5.0	5.0	4.0	4.0	4.0	4.0
82.5°	5.0	5.0	4.0	3.0	3.0	2.0	2.0	2.0	2.0
85°	3.0	3.0	2.0	2.0	1.0	1.0	1.0	1.0	1.0
87.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)