

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: P250152

Luminaire Tested: **LSR8B150D010 EC8B150850 8LBM0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P250152
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13942)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B150D010 EC8B150850 8LBM0WH
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 5000 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16382.0 lumens
Efficiency: N/A
Efficacy: 103.4 lumens/watt
Spacing Criteria (0/90/45): 0.84 / 0.8 / 0.85
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

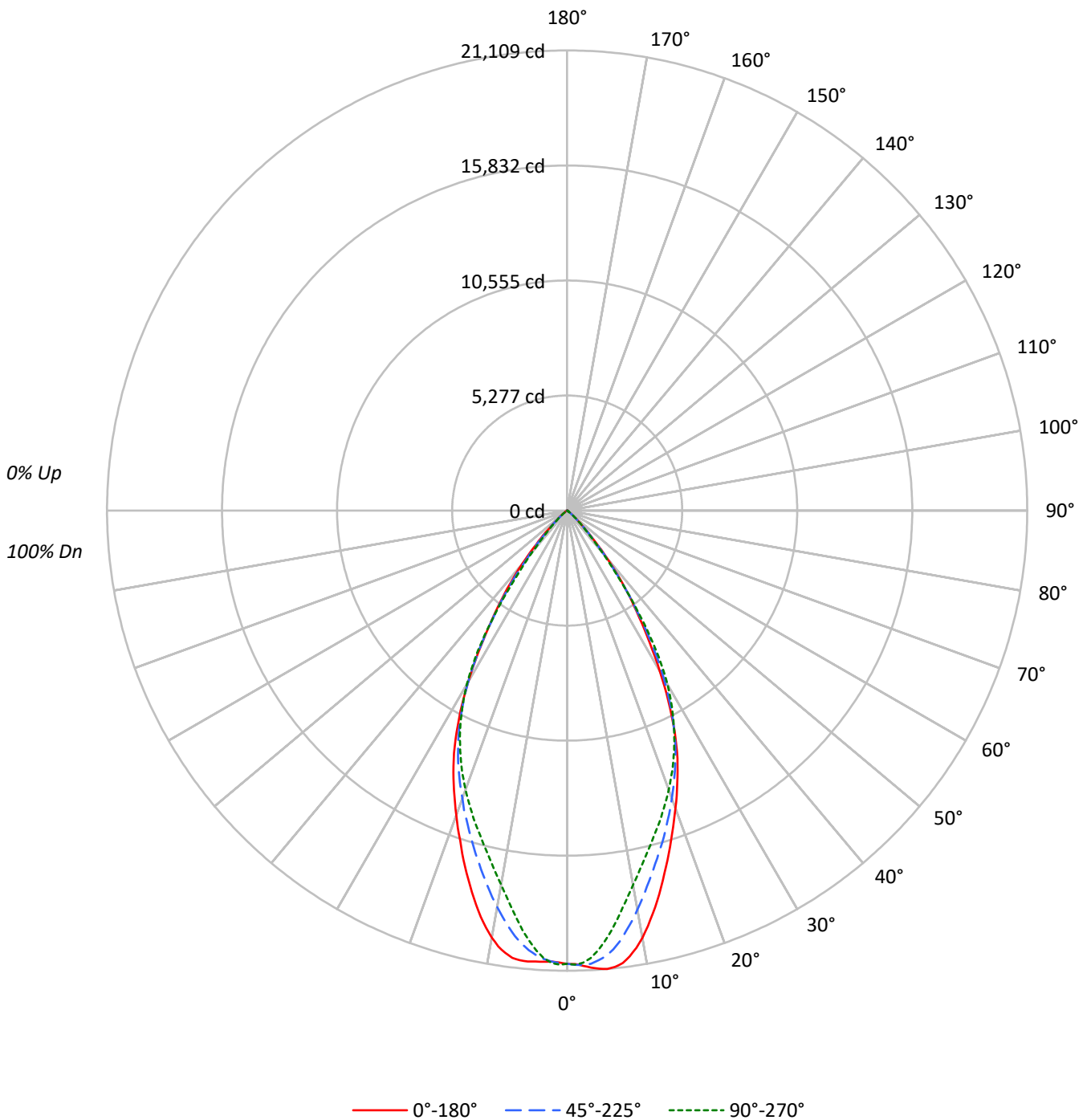
Input Watts (W): 158.5
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	114	111	108	106	111	109	107	105	105	103	101	101	100	98	98	97	96	94					94			
2	108	103	99	96	106	102	98	95	98	95	93	95	93	91	93	91	89	87					87			
3	103	97	92	88	101	95	91	87	93	89	86	90	87	84	88	85	83	81					81			
4	98	90	85	81	96	89	84	80	87	83	79	85	81	78	83	80	77	76					76			
5	93	85	79	75	91	84	78	74	82	77	74	80	76	73	79	75	72	71					71			
6	88	80	74	69	87	79	73	69	77	72	69	76	72	68	75	71	68	66					66			
7	84	75	69	65	83	74	69	65	73	68	64	72	67	64	71	67	64	62					62			
8	80	71	65	61	79	70	64	61	69	64	60	68	63	60	67	63	60	58					58			
9	76	67	61	57	75	66	61	57	65	60	57	64	60	56	64	59	56	55					55			
10	73	63	57	54	72	63	57	54	62	57	53	61	56	53	60	56	53	52					52			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	641093	641093	641093
5°	653401	613814	642759
10°	622968	546047	622808
15°	550107	492496	559463
20°	476721	447027	488000
25°	402788	395908	417574
30°	302732	327749	323430
35°	202654	214259	219778
40°	113540	97463	130222
45°	45628	40116	54228
50°	15759	15279	18671
55°	4349	5166	4892
60°	2492	3121	2806
65°	2211	1839	1474
70°	0	1370	911
75°	0	0	0
80°	0	0	906
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1887.4	11.5
10°-20°	4564.8	27.9
20°-30°	5350.2	32.7
30°-40°	3520.1	21.5
40°-50°	918.6	5.6
50°-60°	113.0	0.7
60°-70°	23.4	0.1
70°-80°	4.4	0.0
80°-90°	0.1	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°	11802.4	72.0
0°-40°	15322.5	93.5
0°-60°	16354.1	99.8
0°-90°	16382.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	16382.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	20790	20790	20790	20790	20790	
5°	21109	20507	19830	20239	20765	###
15°	17232	16256	15427	16256	17525	4803
25°	11838	11722	11636	11833	12273	5337
35°	5383	5505	5692	5747	5838	3371
45°	1046	986	920	1066	1244	938
55°	81	86	96	96	91	107
65°	30	25	25	20	20	21
75°	0	5	0	0	0	3
85°	0	0	0	0	0	0
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°	20790.2	20790.2	20790.2	20790.2	20790.2	20790.2	20790.2	20790.2	20790.2
1°	20805.3	20835.7	20845.8	20876.2	20830.7	20800.4	20759.9	20729.5	20734.6
2°	20896.3	20911.5	20855.9	20835.7	20754.8	20729.5	20699.2	20694.1	20699.2
3°	20992.4	20962.0	20815.5	20679.0	20557.7	20542.5	20598.1	20679.0	20724.4
4°	21068.3	20987.4	20679.0	20426.2	20234.1	20219.1	20441.4	20648.6	20734.6
5°	21108.7	20962.0	20507.1	20082.5	19829.8	19925.8	20239.2	20608.2	20764.9
6°	21053.0	20835.7	20244.3	19678.2	19390.0	19516.4	19976.4	20512.2	20744.7
7°	20911.5	20633.5	19905.6	19238.4	18884.5	19081.7	19668.1	20350.4	20668.9
8°	20648.6	20315.0	19476.0	18727.8	18379.1	18601.4	19289.0	20117.9	20487.0
9°	20304.9	19936.0	19051.4	18262.8	17888.8	18151.6	18894.7	19809.6	20234.1
10°	19895.5	19501.2	18581.3	17777.6	17438.9	17686.6	18470.1	19450.6	19890.4
11°	19415.3	19036.2	18111.2	17322.7	16999.1	17241.8	18045.5	19021.1	19496.1
12°	18894.7	18545.9	17631.0	16882.9	16579.6	16812.1	17590.6	18576.2	19046.3
13°	18374.0	18025.2	17166.0	16458.3	16180.2	16402.6	17145.7	18091.0	18561.0
14°	17813.0	17494.5	16700.9	16053.8	15801.2	16013.4	16690.8	17600.6	18045.5
15°	17231.7	16978.9	16256.1	15664.6	15427.1	15629.2	16256.1	17095.1	17524.8
16°	16685.7	16453.2	15826.4	15280.5	15083.4	15245.1	15816.4	16589.8	16999.1
17°	16129.7	15917.4	15396.7	14901.4	14724.5	14881.2	15366.4	16079.2	16448.1
18°	15573.7	15396.7	14926.7	14502.1	14345.4	14486.9	14921.7	15563.6	15897.1
19°	15058.1	14896.3	14497.1	14138.1	13996.6	14122.9	14532.4	15068.2	15401.8
20°	14527.4	14395.9	14047.1	13754.0	13622.5	13738.8	14057.3	14577.9	14871.1
21°	14016.8	13900.5	13597.3	13349.6	13243.4	13339.5	13632.7	14102.8	14360.5
22°	13486.1	13420.4	13147.5	12940.2	12869.4	12930.0	13197.9	13602.4	13845.0
23°	12965.4	12904.8	12697.5	12525.7	12465.0	12525.7	12763.3	13127.2	13344.6
24°	12439.7	12374.1	12222.4	12111.1	12060.7	12111.1	12313.3	12621.7	12829.0
25°	11838.3	11828.1	11722.0	11661.3	11636.1	11691.6	11833.2	12101.1	12272.9
26°	11261.9	11231.6	11201.3	11191.2	11196.3	11226.6	11342.8	11545.0	11681.6
27°	10554.3	10599.9	10645.3	10706.0	10726.1	10751.5	10807.0	10953.6	11054.8
28°	9876.9	9962.9	10074.1	10195.4	10251.1	10251.1	10256.0	10336.9	10422.9
29°	9204.7	9295.6	9472.6	9654.6	9730.4	9720.2	9679.8	9715.2	9765.8
30°	8502.1	8618.4	8856.0	9093.5	9204.7	9164.3	9088.5	9053.1	9083.4
31°	7814.7	7930.9	8193.8	8451.5	8598.1	8552.7	8421.2	8396.0	8411.1
32°	7157.6	7273.8	7516.4	7789.3	7956.2	7895.6	7759.0	7718.6	7723.7
33°	6520.6	6611.6	6834.0	7086.8	7223.2	7208.0	7096.8	7046.4	7051.3
34°	5919.1	5995.0	6161.7	6353.9	6485.2	6480.2	6399.3	6404.3	6419.6
35°	5383.4	5423.8	5504.6	5610.8	5691.7	5737.1	5747.2	5787.7	5838.3
37.5°	4069.1	4084.2	3988.2	3882.0	3861.8	3993.3	4220.7	4417.9	4493.7
40°	2820.6	2785.2	2663.8	2476.8	2421.2	2567.9	2855.9	3134.0	3235.0
42.5°	1754.0	1738.8	1663.0	1521.5	1470.9	1556.9	1774.2	1986.6	2087.6
45°	1046.3	1026.1	985.6	930.1	919.9	955.3	1066.5	1187.8	1243.5
47.5°	601.5	596.5	571.2	551.0	545.9	571.2	621.7	692.5	707.7
50°	328.5	323.5	318.5	318.5	318.5	333.6	358.9	379.1	389.2
52.5°	161.8	166.8	161.8	166.8	171.9	181.9	176.9	197.1	197.1
55°	80.9	75.8	86.0	96.1	96.1	96.1	96.1	96.1	91.0
57.5°	60.6	65.7	55.7	60.6	55.7	55.7	50.6	55.7	60.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
60°	40.4	35.4	40.4	45.5	50.6	45.5	35.4	40.4	45.5
62.5°	20.2	20.2	20.2	30.3	45.5	35.4	30.3	25.2	25.2
65°	30.3	20.2	25.2	30.3	25.2	25.2	20.2	25.2	20.2
67.5°	15.2	25.2	15.2	10.1	15.2	20.2	15.2	10.1	10.1
70°	0.0	5.1	5.1	15.2	15.2	15.2	15.2	10.1	10.1
72.5°	5.1	5.1	5.1	10.1	5.1	10.1	5.1	5.1	10.1
75°	0.0	0.0	5.1	5.1	0.0	5.1	0.0	0.0	0.0
77.5°	5.1	0.0	5.1	5.1	0.0	0.0	0.0	5.1	0.0
80°	0.0	0.0	5.1	0.0	0.0	0.0	0.0	0.0	5.1
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)