

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: P248057

Luminaire Tested: **LSR8B150D010 EC8B150830 8LBS0WMH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248057
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 EC8B150830 8LBS0WMH
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 3000 CCT WITH WARM HAZE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16651.0 lumens
Efficiency: N/A
Efficacy: 105.1 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

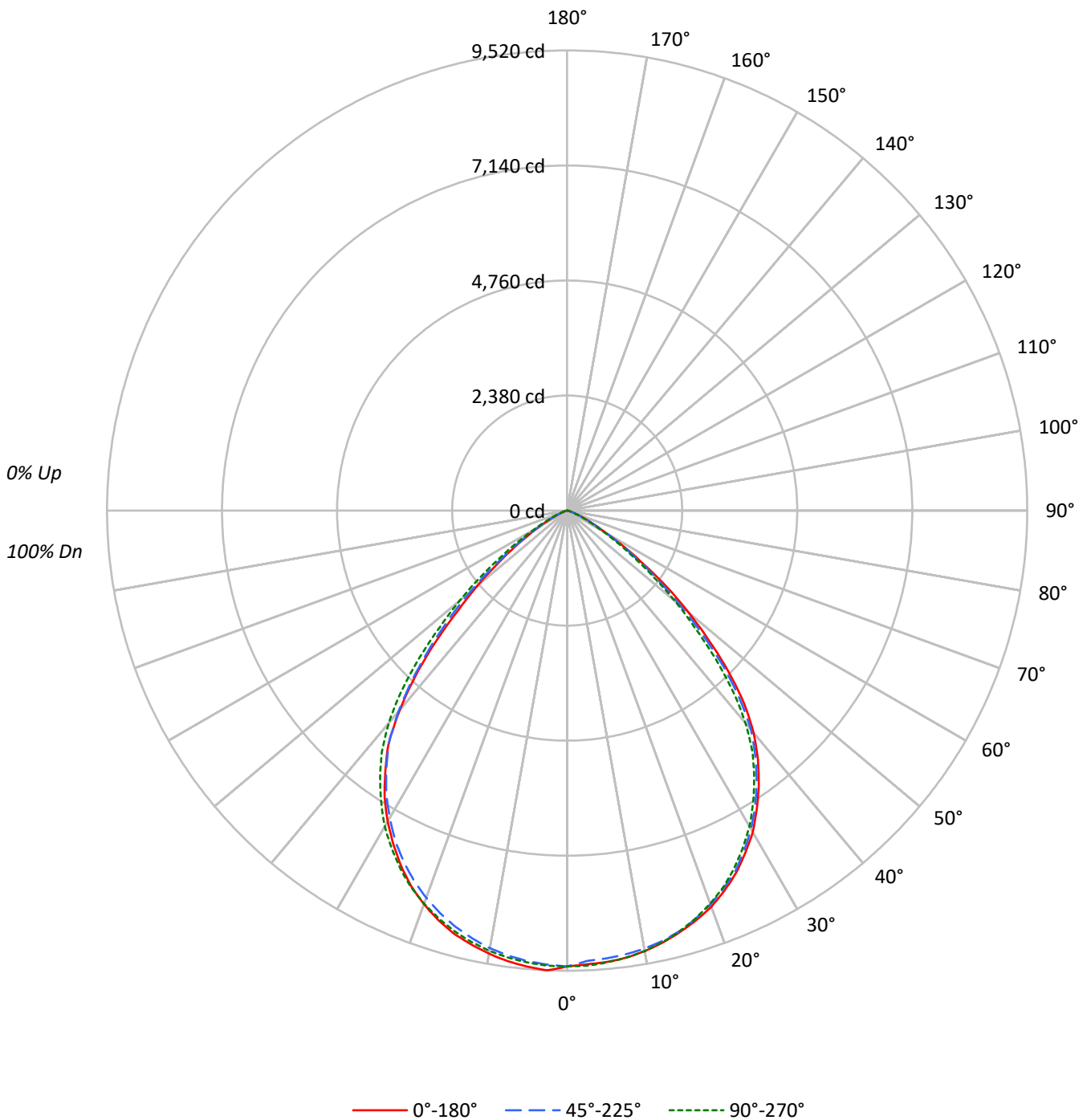
Input Watts (W): 158.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	290814	290814	290814
5°	290229	290526	293117
10°	289821	289639	291418
15°	288150	287627	289194
20°	286222	283948	284391
25°	281386	278018	276347
30°	273484	268656	264412
35°	260246	253982	246923
40°	241669	231295	217009
45°	205992	189595	168336
50°	156852	139735	116579
55°	103399	90115	72589
60°	58065	51065	40093
65°	30456	27223	19365
70°	14570	12830	8060
75°	8245	8936	5612
80°	6322	6144	3250
85°	3750	3078	1344



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	890.6	5.3
10°-20°	2536.7	15.2
20°-30°	3747.6	22.5
30°-40°	4176.3	25.1
40°-50°	3298.2	19.8
50°-60°	1523.1	9.1
60°-70°	391.3	2.3
70°-80°	75.3	0.5
80°-90°	11.8	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°	7175.0	43.1
0°-40°	11351.3	68.2
0°-60°	16172.5	97.1
0°-90°	16651.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	16651.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	9431	9431	9431	9431	9431	
5°	9376	9301	9386	9357	9469	891
15°	9026	9005	9010	8916	9059	2547
25°	8270	8232	8171	8008	8122	3800
35°	6913	6836	6747	6522	6559	4305
45°	4724	4586	4348	4000	3860	3605
55°	1923	1813	1676	1435	1350	1782
65°	417	423	373	286	265	458
75°	69	73	75	57	47	83
85°	11	11	9	5	4	15
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°	9430.9	9430.9	9430.9	9430.9	9430.9	9430.9	9430.9	9430.9	9430.9
2.5°	9395.3	9439.6	9327.1	9418.4	9422.3	9357.8	9402.1	9455.0	9520.4
5°	9376.1	9421.3	9301.1	9385.7	9385.7	9315.5	9356.9	9403.0	9469.4
7.5°	9330.9	9380.0	9261.7	9340.5	9328.0	9251.1	9287.6	9332.8	9404.0
10°	9255.9	9316.5	9201.1	9276.1	9250.1	9161.7	9193.4	9240.5	9306.9
12.5°	9153.0	9225.1	9117.4	9182.8	9141.5	9040.5	9066.5	9127.0	9192.4
15°	9026.1	9100.1	9004.9	9061.6	9009.7	8897.2	8915.5	8977.0	9058.8
17.5°	8884.7	8956.8	8850.1	8911.6	8842.4	8726.0	8732.8	8803.9	8878.0
20°	8722.2	8781.8	8672.2	8730.8	8652.9	8525.0	8526.0	8589.5	8666.4
22.5°	8508.7	8571.2	8457.7	8506.8	8435.6	8299.1	8282.7	8344.3	8418.3
25°	8270.2	8335.6	8231.7	8249.1	8171.2	8029.8	8007.7	8052.9	8122.1
27.5°	7984.6	8049.0	7931.7	7953.8	7868.2	7732.6	7702.8	7726.9	7781.7
30°	7680.7	7721.1	7609.6	7627.8	7545.1	7384.5	7339.3	7372.0	7425.9
32.5°	7306.6	7335.5	7240.3	7249.9	7160.5	7022.0	6962.4	6972.0	7026.8
35°	6913.3	6928.7	6836.4	6838.3	6746.9	6606.5	6521.9	6517.1	6559.4
37.5°	6479.6	6490.2	6396.9	6392.1	6297.9	6145.9	6057.4	6042.1	6068.0
40°	6003.6	6018.0	5920.9	5890.1	5745.9	5572.8	5428.5	5401.6	5391.0
42.5°	5426.6	5387.2	5285.2	5233.3	5088.1	4866.0	4732.3	4691.9	4657.3
45°	4723.6	4691.9	4586.1	4468.8	4347.6	4180.3	4000.5	3889.9	3860.1
47.5°	3986.0	3948.5	3796.6	3693.7	3574.5	3497.5	3304.2	3134.0	3060.0
50°	3269.6	3228.3	3059.0	2983.0	2912.8	2798.4	2610.9	2458.0	2430.1
52.5°	2607.0	2544.5	2399.3	2320.5	2258.0	2131.0	1961.8	1873.3	1826.2
55°	1923.3	1913.7	1812.7	1756.0	1676.2	1575.2	1434.8	1368.4	1350.2
57.5°	1401.1	1365.5	1327.1	1279.0	1209.8	1082.8	996.3	946.3	942.4
60°	941.5	953.0	953.0	900.1	828.0	745.3	676.0	649.1	650.1
62.5°	631.8	639.5	637.6	614.5	558.7	491.4	446.2	427.0	427.9
65°	417.4	415.4	423.1	406.8	373.1	326.0	285.6	275.0	265.4
67.5°	265.4	268.3	265.4	256.8	236.6	202.9	176.0	159.6	154.8
70°	161.6	157.7	158.7	156.7	142.3	126.0	106.7	93.3	89.4
72.5°	97.1	100.0	101.0	103.9	101.9	90.4	76.9	67.3	65.4
75°	69.2	70.2	73.1	76.0	75.0	67.3	56.7	50.0	47.1
77.5°	51.9	51.9	53.9	57.7	54.8	48.1	40.4	34.6	32.7
80°	35.6	36.5	37.5	37.5	34.6	30.8	24.0	20.2	18.3
82.5°	21.2	22.1	21.2	21.2	19.2	15.4	11.5	10.6	9.6
85°	10.6	10.6	10.6	10.6	8.7	6.7	4.8	3.8	3.8
87.5°	4.8	4.8	4.8	3.8	2.9	1.9	1.9	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)