

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: P248054

Luminaire Tested: **LSR8B150D010 EC8B150827 8LBS0WMH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248054
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 EC8B150827 8LBS0WMH
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 2700 CCT WITH WARM HAZE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16244.0 lumens
Efficiency: N/A
Efficacy: 102.5 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

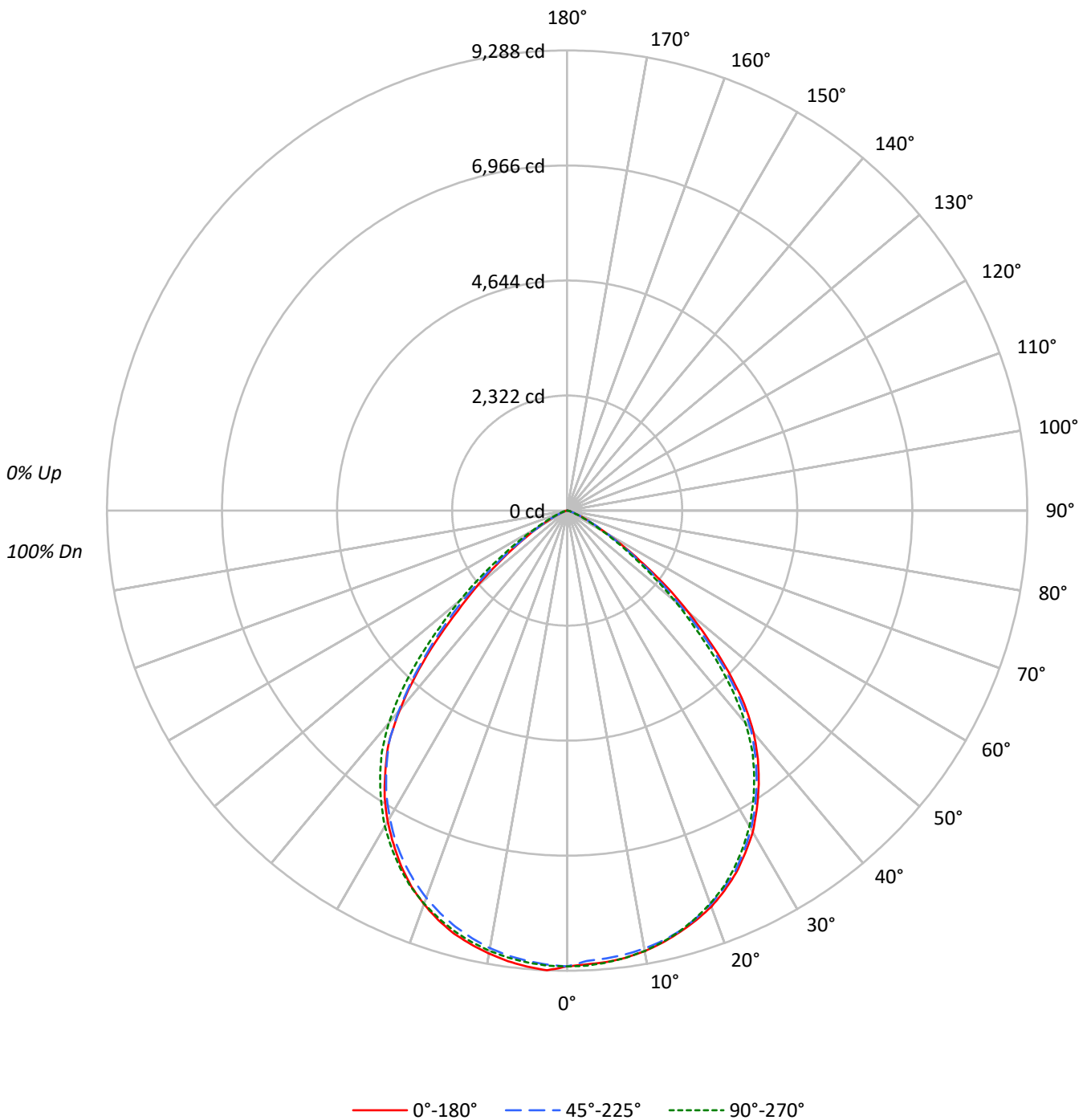
Input Watts (W): 158.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	283706	283706	283706
5°	283134	283425	285951
10°	282738	282560	284294
15°	281104	280597	282123
20°	279226	277007	277440
25°	274510	271220	269593
30°	266801	262090	257949
35°	253884	247774	240889
40°	235759	225639	211704
45°	200960	184964	164219
50°	153019	136319	113729
55°	100873	87911	70815
60°	56640	49813	39113
65°	29711	26559	18891
70°	14209	12514	7862
75°	8042	8721	5481
80°	6162	6002	3161
85°	3644	2972	1344



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	868.9	5.3
10°-20°	2474.7	15.2
20°-30°	3656.0	22.5
30°-40°	4074.2	25.1
40°-50°	3217.5	19.8
50°-60°	1485.9	9.1
60°-70°	381.7	2.3
70°-80°	73.5	0.5
80°-90°	11.5	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°	6999.6	43.1
0°-40°	11073.8	68.2
0°-60°	15777.2	97.1
0°-90°	16244.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	16244.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	9200	9200	9200	9200	9200	
5°	9147	9074	9156	9128	9238	869
15°	8805	8785	8790	8698	8837	2485
25°	8068	8030	7971	7812	7924	3708
35°	6744	6669	6582	6362	6399	4200
45°	4608	4474	4241	3903	3766	3517
55°	1876	1768	1635	1400	1317	1739
65°	407	413	364	279	259	447
75°	68	71	73	55	46	81
85°	10	10	8	5	4	14
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°	9200.4	9200.4	9200.4	9200.4	9200.4	9200.4	9200.4	9200.4	9200.4
2.5°	9165.7	9208.8	9099.1	9188.2	9192.0	9129.1	9172.3	9223.9	9287.6
5°	9146.9	9191.0	9073.8	9156.3	9156.3	9087.8	9128.2	9173.2	9237.9
7.5°	9102.8	9150.7	9035.3	9112.2	9100.0	9025.0	9060.6	9104.7	9174.1
10°	9029.7	9088.8	8976.2	9049.4	9024.0	8937.7	8968.7	9014.6	9079.4
12.5°	8929.3	8999.6	8894.6	8958.4	8918.0	8819.5	8844.8	8903.9	8967.7
15°	8805.4	8877.7	8784.8	8840.2	8789.5	8679.7	8697.6	8757.6	8837.3
17.5°	8667.5	8737.9	8633.8	8693.8	8626.3	8512.7	8519.3	8588.7	8661.0
20°	8509.0	8567.2	8460.2	8517.4	8441.4	8316.7	8317.6	8379.5	8454.6
22.5°	8300.7	8361.7	8251.0	8298.8	8229.4	8096.2	8080.3	8140.3	8212.5
25°	8068.1	8131.9	8030.5	8047.4	7971.4	7833.5	7811.9	7856.0	7923.6
27.5°	7789.4	7852.3	7737.8	7759.4	7675.9	7543.6	7514.6	7538.0	7591.5
30°	7493.0	7532.4	7423.6	7441.4	7360.7	7204.0	7159.9	7191.8	7244.4
32.5°	7128.0	7156.2	7063.3	7072.7	6985.4	6850.3	6792.2	6801.6	6855.0
35°	6744.3	6759.3	6669.3	6671.2	6582.0	6445.1	6362.5	6357.8	6399.1
37.5°	6321.2	6331.5	6240.5	6235.9	6143.9	5995.7	5909.4	5894.4	5919.7
40°	5856.8	5870.9	5776.2	5746.1	5605.4	5436.6	5295.8	5269.6	5259.2
42.5°	5294.0	5255.5	5156.1	5105.4	4963.7	4747.0	4616.6	4577.2	4543.4
45°	4608.2	4577.2	4474.0	4359.6	4241.4	4078.1	3902.7	3794.8	3765.7
47.5°	3888.6	3852.0	3703.8	3603.4	3487.1	3412.0	3223.5	3057.4	2985.2
50°	3189.7	3149.4	2984.2	2910.1	2841.6	2730.0	2547.1	2397.9	2370.7
52.5°	2543.3	2482.3	2340.7	2263.7	2202.8	2078.9	1913.8	1827.5	1781.5
55°	1876.3	1866.9	1768.4	1713.1	1635.2	1536.7	1399.7	1335.0	1317.2
57.5°	1366.9	1332.2	1294.6	1247.7	1180.2	1056.4	971.9	923.1	919.4
60°	918.4	929.7	929.7	878.1	807.7	727.1	659.5	633.2	634.2
62.5°	616.4	623.9	622.0	599.5	545.1	479.4	435.3	416.5	417.5
65°	407.2	405.3	412.8	396.8	364.0	318.0	278.6	268.3	258.9
67.5°	258.9	261.7	258.9	250.5	230.8	197.9	171.7	155.7	151.0
70°	157.6	153.9	154.8	152.9	138.8	122.9	104.1	91.0	87.2
72.5°	94.8	97.6	98.5	101.3	99.4	88.2	75.1	65.7	63.8
75°	67.5	68.5	71.3	74.1	73.2	65.7	55.4	48.8	46.0
77.5°	50.7	50.7	52.5	56.3	53.5	46.9	39.4	33.8	31.9
80°	34.7	35.6	36.6	36.6	33.8	30.0	23.5	19.7	17.8
82.5°	20.6	21.6	20.6	20.6	18.8	15.0	11.3	10.3	9.4
85°	10.3	10.3	10.3	10.3	8.4	6.6	4.7	3.8	3.8
87.5°	4.7	4.7	4.7	3.8	2.8	1.9	1.9	0.9	0.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)