

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: P247910

Luminaire Tested: **LSR8B150D010 EC8B150827 8LBW0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247910
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-70)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B150D010 EC8B150827 8LBW0H
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 2700 CCT WITH SEMI-SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15262.0 lumens
Efficiency: N/A
Efficacy: 96.3 lumens/watt
Spacing Criteria (0/90/45): 1.12 / 1.12 / 1.06
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

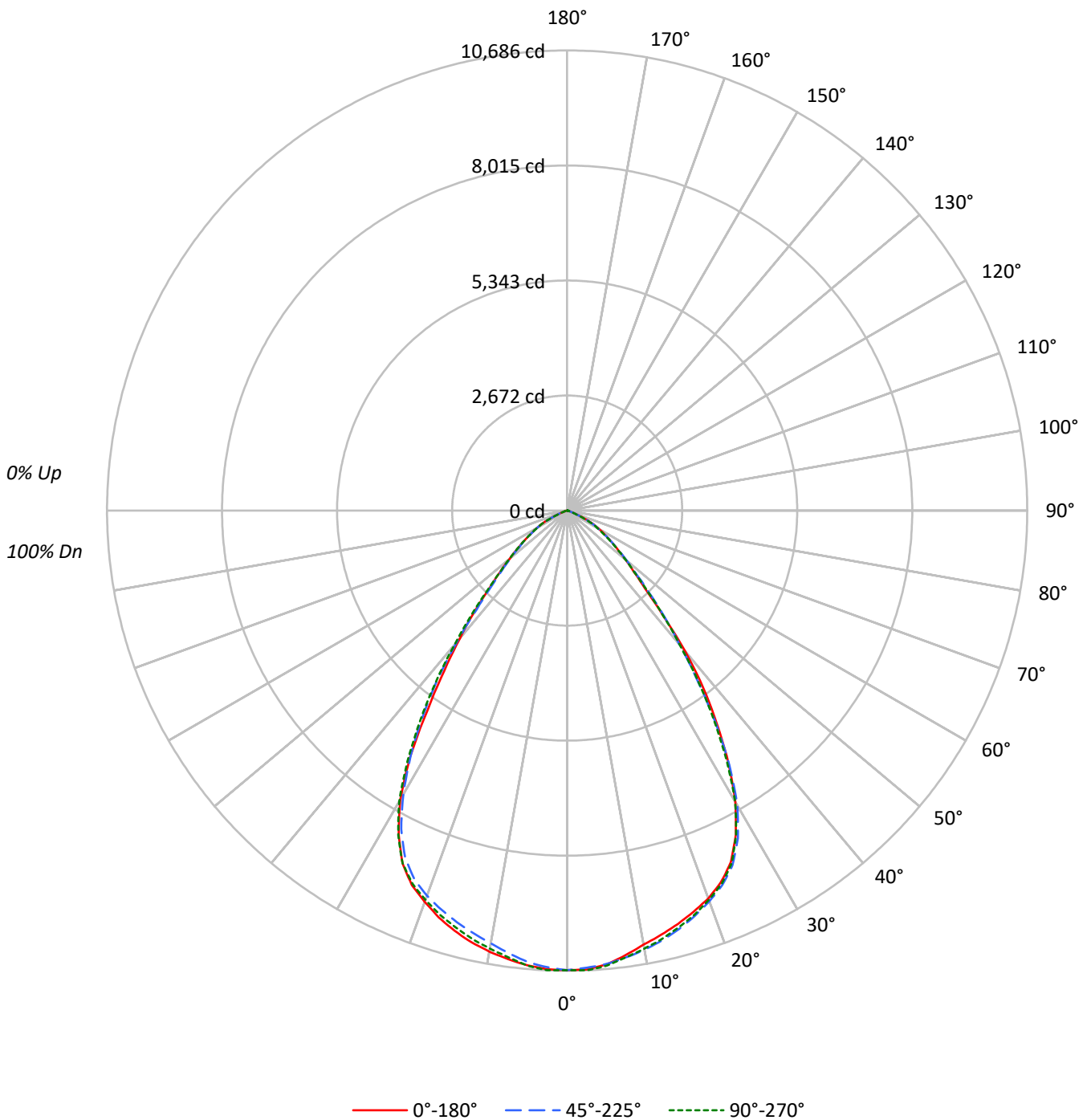
Input Watts (W): 158.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	104	110	107	104	102	103	101	99	99	97	96	96	94	93	91					91			
2	105	100	95	91	103	98	93	90	94	91	88	91	88	86	89	86	84	82					82			
3	99	91	85	80	97	90	84	80	87	82	78	84	80	77	82	79	76	74					74			
4	92	83	77	72	90	82	76	71	80	75	70	78	73	70	76	72	69	67					67			
5	87	77	70	65	85	76	69	64	74	68	64	72	67	63	70	66	62	61					61			
6	81	71	64	59	80	70	63	58	68	62	58	67	61	57	65	61	57	55					55			
7	76	65	58	53	75	65	58	53	63	57	53	62	57	53	61	56	52	51					51			
8	72	61	54	49	71	60	54	49	59	53	49	58	52	48	57	52	48	47					47			
9	68	57	50	45	67	56	50	45	55	49	45	54	49	45	53	48	45	43					43			
10	64	53	46	42	63	52	46	42	52	46	42	51	45	41	50	45	41	40					40			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	329101	329101	329101
5°	327395	328324	328151
10°	320400	323365	325629
15°	317259	319803	322469
20°	314538	315677	317249
25°	306271	307452	307707
30°	277992	277725	275856
35°	228884	223765	212569
40°	171148	163443	156044
45°	110833	113737	111160
50°	84835	84384	84024
55°	66476	65266	64713
60°	52884	49992	50683
65°	34702	30667	31010
70°	12433	11423	11838
75°	4468	5481	4468
80°	2824	3996	3338
85°	672	1981	1344



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	999.6	6.5
10°-20°	2818.2	18.5
20°-30°	4085.9	26.8
30°-40°	3672.7	24.1
40°-50°	2069.6	13.6
50°-60°	1102.7	7.2
60°-70°	440.7	2.9
70°-80°	58.7	0.4
80°-90°	13.8	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°	7903.8	51.8
0°-40°	11576.5	75.9
0°-60°	14748.8	96.6
0°-90°	15262.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	15262.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	10672	10672	10672	10672	10672	
5°	10577	10567	10607	10523	10601	998
15°	9938	10053	10018	9894	10101	2804
25°	9002	9086	9036	8896	9044	4086
35°	6080	5993	5944	5862	5647	3772
45°	2542	2679	2608	2485	2549	2088
55°	1236	1240	1214	1186	1204	1127
65°	476	453	420	408	425	471
75°	38	48	46	45	38	56
85°	2	11	6	16	4	5
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°	10672.5	10672.5	10672.5	10672.5	10672.5	10672.5	10672.5	10672.5	10672.5
2.5°	10665.0	10642.4	10625.6	10657.4	10685.6	10608.7	10614.3	10648.1	10659.3
5°	10576.8	10556.1	10567.4	10593.7	10606.8	10510.2	10523.3	10580.5	10601.2
7.5°	10411.7	10427.6	10467.9	10501.7	10462.3	10348.8	10367.6	10466.1	10506.4
10°	10232.5	10270.0	10354.4	10393.8	10327.2	10181.8	10203.4	10335.7	10399.5
12.5°	10089.9	10131.1	10219.3	10249.4	10190.2	10033.6	10056.1	10193.1	10269.1
15°	9937.9	9975.4	10053.3	10077.7	10017.6	9873.1	9893.8	10025.1	10101.1
17.5°	9766.2	9799.0	9868.5	9891.0	9838.4	9685.5	9718.4	9840.3	9906.9
20°	9585.1	9608.6	9657.4	9670.5	9619.8	9504.5	9519.5	9624.5	9667.7
22.5°	9338.4	9368.4	9413.5	9427.5	9380.6	9254.0	9268.0	9371.2	9418.1
25°	9001.6	9045.7	9086.0	9103.9	9036.3	8868.4	8896.5	8984.7	9043.8
27.5°	8479.1	8514.7	8586.0	8587.9	8495.0	8320.5	8344.0	8457.5	8472.5
30°	7807.3	7840.2	7903.0	7889.0	7799.8	7592.5	7611.3	7722.0	7747.3
32.5°	6984.6	6996.8	7013.7	7009.0	6900.1	6802.6	6764.1	6777.2	6786.6
35°	6080.2	6101.8	5992.9	5933.8	5944.2	5952.6	5861.6	5726.5	5646.8
37.5°	5203.9	5100.8	4966.6	4920.6	5006.0	5034.1	4951.6	4749.9	4675.8
40°	4251.7	4159.8	4053.8	4062.2	4060.3	4080.0	3975.9	3901.8	3876.5
42.5°	3272.3	3273.2	3342.6	3294.8	3285.4	3148.5	3108.1	3149.4	3194.4
45°	2541.5	2625.9	2679.4	2665.3	2608.1	2485.2	2485.2	2557.4	2549.0
47.5°	2092.1	2122.1	2162.4	2159.6	2118.4	2028.3	2043.3	2093.0	2118.4
50°	1768.4	1781.6	1800.3	1784.4	1759.0	1702.8	1701.8	1736.5	1751.5
52.5°	1479.5	1487.0	1482.3	1473.8	1459.8	1429.7	1420.4	1449.5	1453.2
55°	1236.5	1250.6	1240.2	1216.8	1214.0	1186.8	1185.8	1209.3	1203.7
57.5°	1030.1	1016.0	1002.0	982.2	979.4	971.0	980.4	984.1	978.5
60°	857.5	858.4	831.2	812.4	810.6	798.4	811.5	821.8	821.8
62.5°	690.5	686.7	669.8	641.7	646.4	641.7	647.3	649.2	640.8
65°	475.6	476.6	453.1	419.4	420.3	416.5	408.1	421.2	425.0
67.5°	253.3	251.4	233.6	221.4	216.7	218.6	228.0	230.8	220.5
70°	137.9	133.2	137.0	123.8	126.7	122.0	126.7	134.2	131.3
72.5°	70.4	75.1	67.5	61.9	69.4	68.5	79.7	73.2	65.7
75°	37.5	40.3	47.8	44.1	46.0	44.1	45.0	42.2	37.5
77.5°	27.2	30.0	34.7	33.8	32.8	31.0	34.7	38.5	31.0
80°	15.9	19.7	21.6	25.3	22.5	25.3	29.1	23.5	18.8
82.5°	10.3	15.9	15.9	16.9	24.4	15.9	26.3	23.5	18.8
85°	1.9	2.8	11.3	6.6	5.6	16.9	15.9	12.2	3.8
87.5°	0.0	6.6	15.0	7.5	12.2	11.3	15.9	16.9	3.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)