

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: P247895

Luminaire Tested: **LSR8B150D010 EC8B150935 8LBSOLI**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247895
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-91)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B150D010 EC8B150935 8LBS0LI
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
90 CRI 3500 CCT WITH SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15467.0 lumens
Efficiency: N/A
Efficacy: 97.6 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.24
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

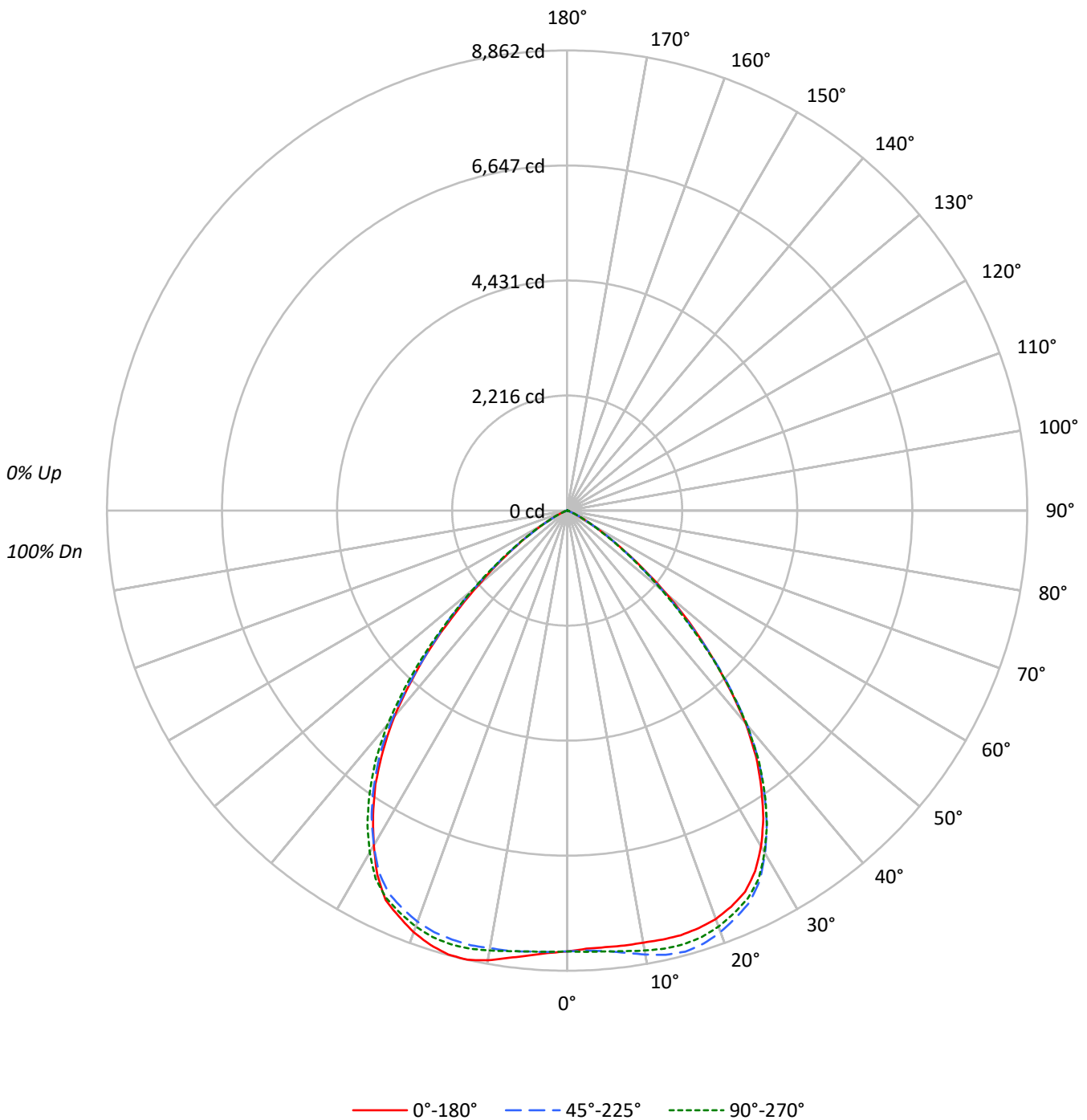
Input Watts (W): 158.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	95	94	93	91					91			
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	86	83	82					82			
3	98	90	84	79	96	89	83	79	86	81	77	84	80	76	81	78	75	73					73			
4	92	82	76	70	90	81	75	70	79	73	69	77	72	68	75	71	67	66					66			
5	86	75	68	63	84	74	68	63	72	66	62	71	65	61	69	64	61	59					59			
6	80	69	62	57	78	68	61	56	67	60	56	65	60	55	64	59	55	53					53			
7	75	64	56	51	73	63	56	51	61	55	51	60	55	50	59	54	50	48					48			
8	70	59	51	46	69	58	51	46	57	51	46	56	50	46	55	50	46	44					44			
9	66	54	47	42	65	54	47	42	53	47	42	52	46	42	51	46	42	40					40			
10	62	51	44	39	61	50	43	39	49	43	39	48	43	39	47	42	39	37					37			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	261763	261763	261763
5°	261259	263766	266221
10°	264546	269380	275361
15°	270263	276118	282541
20°	274674	279737	283600
25°	275738	280236	281601
30°	265971	270618	265031
35°	245301	249604	242252
40°	215069	216683	208443
45°	168881	167503	161110
50°	119994	114386	106576
55°	71384	68820	64460
60°	35819	34345	34080
65°	15060	14498	14870
70°	5617	4842	4688
75°	2240	2442	2442
80°	2575	1811	604
85°	2724	5130	2123



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	816.4	5.3
10°-20°	2444.3	15.8
20°-30°	3756.6	24.3
30°-40°	4063.9	26.3
40°-50°	2929.2	18.9
50°-60°	1189.0	7.7
60°-70°	237.5	1.5
70°-80°	23.8	0.2
80°-90°	6.4	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°	7017.2	45.4
0°-40°	11081.1	71.6
0°-60°	15199.4	98.3
0°-90°	15467.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	15467.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	8489	8489	8489	8489	8489	
5°	8440	8512	8521	8525	8600	806
15°	8466	8794	8649	8553	8850	2392
25°	8104	8320	8236	8131	8276	3704
35°	6516	6612	6631	6495	6435	4046
45°	3873	3891	3841	3712	3694	2987
55°	1328	1287	1280	1237	1199	1246
65°	206	223	199	189	204	246
75°	19	23	20	20	20	25
85°	8	11	14	7	6	6
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°	8488.8	8488.8	8488.8	8488.8	8488.8	8488.8	8488.8	8488.8	8488.8
2.5°	8445.3	8499.1	8481.1	8458.1	8506.7	8497.4	8507.6	8511.8	8528.1
5°	8440.2	8500.8	8511.8	8487.1	8521.2	8505.0	8524.6	8561.3	8600.5
7.5°	8448.7	8540.0	8587.7	8573.3	8557.0	8501.6	8552.8	8637.2	8689.2
10°	8448.7	8569.8	8680.7	8679.9	8603.1	8499.9	8557.0	8702.9	8794.1
12.5°	8462.4	8610.8	8762.6	8772.8	8642.3	8511.8	8573.3	8745.5	8861.5
15°	8465.8	8611.6	8794.1	8799.2	8649.2	8495.6	8552.8	8737.8	8850.4
17.5°	8430.0	8570.7	8743.8	8761.7	8610.8	8454.7	8512.7	8678.1	8767.7
20°	8370.3	8496.5	8637.2	8667.1	8524.6	8376.3	8427.4	8569.8	8642.3
22.5°	8256.0	8371.1	8487.1	8509.3	8395.0	8265.4	8291.0	8401.8	8462.4
25°	8104.2	8218.5	8320.0	8331.9	8236.4	8120.4	8130.6	8215.1	8276.5
27.5°	7834.7	7943.0	8035.1	8049.6	7992.5	7868.8	7850.1	7890.2	7915.7
30°	7469.7	7543.9	7620.7	7666.7	7600.2	7497.9	7445.0	7466.3	7443.3
32.5°	7031.4	7107.3	7154.2	7168.7	7158.4	7068.9	7006.6	6952.9	6956.3
35°	6516.3	6585.4	6611.8	6638.2	6630.6	6560.6	6495.0	6444.6	6435.3
37.5°	5976.5	6022.5	6052.4	6072.8	6055.8	6011.4	5926.1	5839.2	5824.7
40°	5342.8	5412.8	5388.9	5399.1	5382.9	5326.6	5241.3	5191.9	5178.2
42.5°	4599.2	4660.6	4655.5	4658.9	4623.1	4546.3	4472.1	4444.8	4430.3
45°	3872.6	3902.4	3891.4	3855.5	3841.0	3793.3	3712.3	3660.2	3694.4
47.5°	3188.6	3178.4	3104.2	3075.2	3053.9	3060.7	3042.8	2951.6	2902.1
50°	2501.3	2474.8	2404.1	2360.6	2384.4	2403.2	2336.7	2282.1	2221.6
52.5°	1854.9	1860.0	1792.6	1744.8	1767.0	1770.4	1731.2	1700.5	1682.6
55°	1327.8	1327.8	1286.9	1271.5	1280.1	1263.9	1236.6	1226.3	1199.0
57.5°	903.1	909.1	906.5	888.6	848.5	834.0	818.7	834.0	843.4
60°	580.8	595.3	592.7	591.0	556.9	522.8	537.3	550.9	552.6
62.5°	357.3	364.1	376.1	365.9	348.8	321.5	318.1	338.6	357.3
65°	206.4	214.1	223.4	216.6	198.7	194.4	189.3	200.4	203.8
67.5°	117.7	114.3	115.1	110.0	104.9	98.9	99.8	104.9	112.6
70°	62.3	53.7	54.6	49.5	53.7	47.8	46.1	50.3	52.0
72.5°	31.6	30.7	35.0	35.0	37.5	33.3	33.3	31.6	35.8
75°	18.8	21.3	23.0	25.6	20.5	19.6	19.6	19.6	20.5
77.5°	5.1	2.6	3.4	11.1	4.3	8.5	4.3	3.4	7.7
80°	14.5	8.5	5.1	9.4	10.2	5.1	12.8	11.9	3.4
82.5°	5.1	0.0	9.4	10.2	8.5	8.5	10.2	10.2	9.4
85°	7.7	5.1	11.1	12.8	14.5	8.5	6.8	4.3	6.0
87.5°	3.4	0.0	5.1	4.3	2.6	0.9	2.6	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)