

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: P247907

Luminaire Tested: **LSR8B150D010 EC8B1509730 8LBSOLI**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247907
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 EC8B1509730 8LBSOLI
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
97 CRI 3000 CCT WITH SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13361.0 lumens
Efficiency: N/A
Efficacy: 84.3 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.24
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

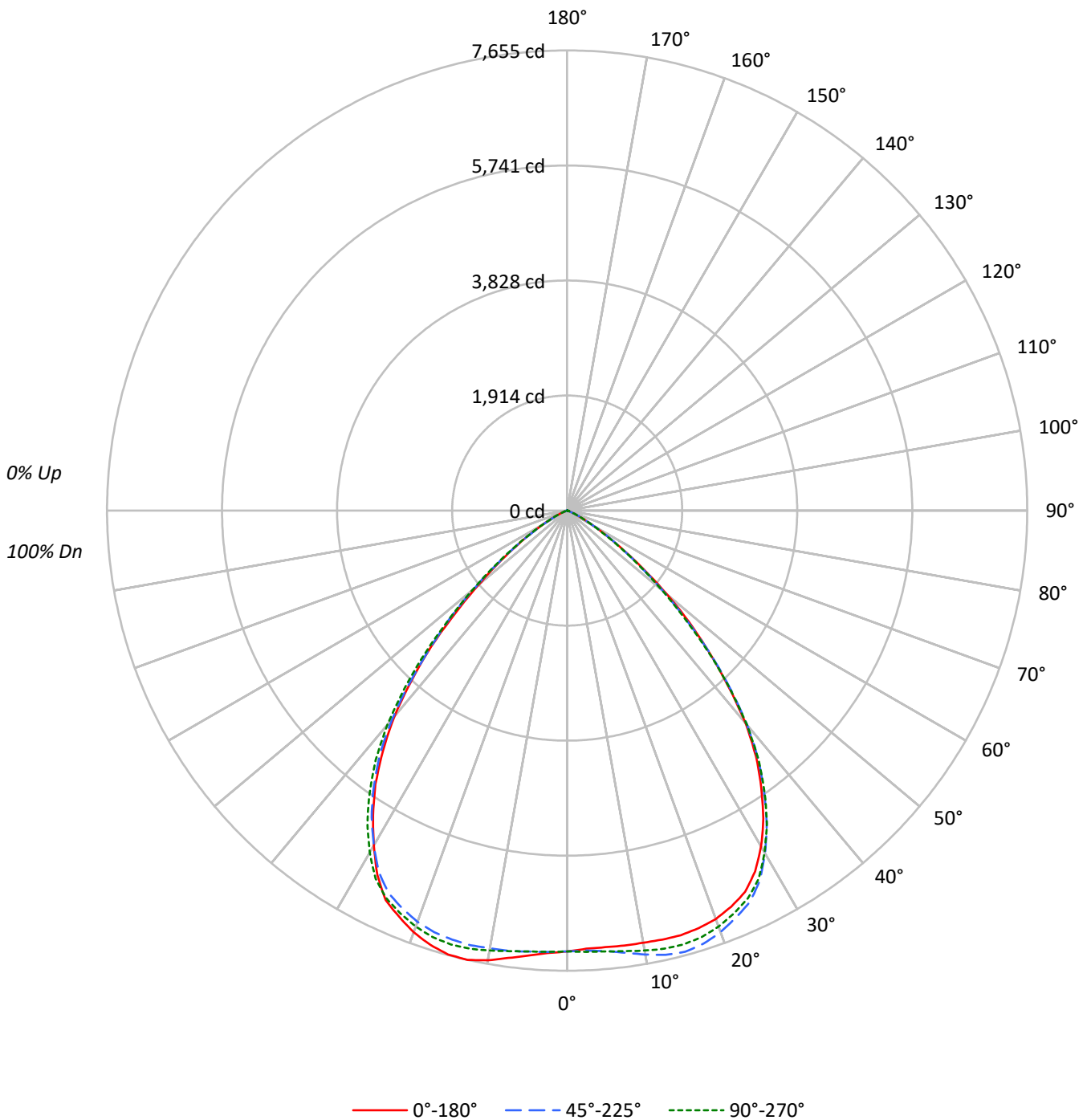
Input Watts (W): 158.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0			
RCR																								
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100	100			
1	112	109	106	103	110	107	104	102	103	101	99	99	97	96	95	94	93	91	91	91	91			
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	86	83	82	82	82	82			
3	98	90	84	79	96	89	83	79	86	81	77	84	80	76	81	78	75	73	73	73	73			
4	92	82	76	70	90	81	75	70	79	73	69	77	72	68	75	71	67	66	66	66	66			
5	86	75	68	63	84	74	68	63	72	66	62	71	65	61	69	64	61	59	59	59	59			
6	80	69	62	57	78	68	61	56	67	60	56	65	60	55	64	59	55	53	53	53	53			
7	75	64	56	51	73	63	56	51	61	55	51	60	55	50	59	54	50	48	48	48	48			
8	70	59	51	46	69	58	51	46	57	51	46	56	50	46	55	50	46	44	44	44	44			
9	66	54	47	42	65	54	47	42	53	47	42	52	46	42	51	46	42	40	40	40	40			
10	62	51	44	39	61	50	43	39	49	43	39	48	43	39	47	42	39	37	37	37	37			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	Luminaire represents a point source (luminous area is zero).		
5°	No luminance values can be calculated.		
10°			
15°			
20°			
25°			
30°			
35°			
40°			
45°			
50°			
55°			
60°			
65°			
70°			
75°			
80°			
85°			



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	705.2	5.3
10°-20°	2111.4	15.8
20°-30°	3245.1	24.3
30°-40°	3510.6	26.3
40°-50°	2530.4	18.9
50°-60°	1027.1	7.7
60°-70°	205.1	1.5
70°-80°	20.5	0.2
80°-90°	5.5	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°	6061.7	45.4
0°-40°	9572.3	71.6
0°-60°	13129.8	98.3
0°-90°	13361.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	13361.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	7333	7333	7333	7333	7333	
5°	7291	7353	7361	7364	7430	697
15°	7313	7597	7472	7388	7645	2066
25°	7001	7187	7115	7024	7150	3200
35°	5629	5712	5728	5611	5559	3495
45°	3345	3362	3318	3207	3191	2580
55°	1147	1112	1106	1068	1036	1076
65°	178	193	172	164	176	212
75°	16	20	18	17	18	21
85°	7	10	12	6	5	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°	7333.0	7333.0	7333.0	7333.0	7333.0	7333.0	7333.0	7333.0	7333.0
2.5°	7295.4	7341.8	7326.3	7306.5	7348.4	7340.3	7349.2	7352.9	7366.9
5°	7291.0	7343.3	7352.9	7331.5	7361.0	7347.0	7363.9	7395.6	7429.5
7.5°	7298.4	7377.2	7418.4	7405.9	7391.9	7344.0	7388.2	7461.2	7506.1
10°	7298.4	7403.0	7498.7	7498.0	7431.7	7342.6	7391.9	7517.9	7596.7
12.5°	7310.1	7438.3	7569.5	7578.3	7465.6	7352.9	7405.9	7554.7	7654.9
15°	7313.1	7439.1	7596.7	7601.1	7471.5	7338.9	7388.2	7548.1	7645.3
17.5°	7282.1	7403.7	7553.2	7568.7	7438.3	7303.5	7353.6	7496.5	7573.9
20°	7230.6	7339.6	7461.2	7486.9	7363.9	7235.7	7279.9	7403.0	7465.6
22.5°	7131.9	7231.3	7331.5	7350.7	7251.9	7140.0	7162.1	7257.8	7310.1
25°	7000.7	7099.4	7187.1	7197.4	7114.9	7014.7	7023.6	7096.5	7149.5
27.5°	6767.9	6861.5	6941.1	6953.6	6904.2	6797.4	6781.2	6815.8	6837.9
30°	6452.6	6516.7	6583.0	6622.8	6565.4	6476.9	6431.3	6449.7	6429.8
32.5°	6074.0	6139.5	6180.1	6192.6	6183.7	6106.4	6052.6	6006.2	6009.2
35°	5629.0	5688.7	5711.5	5734.4	5727.7	5667.3	5610.6	5567.1	5559.0
37.5°	5162.7	5202.5	5228.3	5245.9	5231.2	5192.9	5119.2	5044.1	5031.6
40°	4615.3	4675.7	4655.1	4664.0	4650.0	4601.3	4527.7	4484.9	4473.2
42.5°	3973.0	4026.0	4021.6	4024.5	3993.6	3927.3	3863.2	3839.6	3827.1
45°	3345.3	3371.1	3361.5	3330.6	3318.0	3276.8	3206.8	3161.9	3191.3
47.5°	2754.5	2745.6	2681.5	2656.5	2638.1	2644.0	2628.5	2549.7	2506.9
50°	2160.7	2137.9	2076.7	2039.1	2059.8	2076.0	2018.5	1971.4	1919.1
52.5°	1602.3	1606.7	1548.5	1507.3	1526.4	1529.4	1495.5	1469.0	1453.5
55°	1147.0	1147.0	1111.7	1098.4	1105.8	1091.8	1068.2	1059.4	1035.8
57.5°	780.2	785.3	783.1	767.6	733.0	720.5	707.2	720.5	728.6
60°	501.7	514.2	512.0	510.5	481.1	451.6	464.1	475.9	477.4
62.5°	308.7	314.6	324.9	316.0	301.3	277.7	274.8	292.5	308.7
65°	178.3	184.9	193.0	187.1	171.6	168.0	163.5	173.1	176.1
67.5°	101.7	98.7	99.5	95.0	90.6	85.5	86.2	90.6	97.2
70°	53.8	46.4	47.1	42.7	46.4	41.3	39.8	43.5	44.9
72.5°	27.3	26.5	30.2	30.2	32.4	28.7	28.7	27.3	30.9
75°	16.2	18.4	19.9	22.1	17.7	16.9	16.9	16.9	17.7
77.5°	4.4	2.2	2.9	9.6	3.7	7.4	3.7	2.9	6.6
80°	12.5	7.4	4.4	8.1	8.8	4.4	11.1	10.3	2.9
82.5°	4.4	0.0	8.1	8.8	7.4	7.4	8.8	8.8	8.1
85°	6.6	4.4	9.6	11.1	12.5	7.4	5.9	3.7	5.2
87.5°	2.9	0.0	4.4	3.7	2.2	0.7	2.2	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)