

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: P247874

Luminaire Tested: **LSR8B150D010 EC8B150827 8LBSOLI**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247874
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 EC8B150827 8LBS0LI
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 2700 CCT WITH SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17015.0 lumens
Efficiency: N/A
Efficacy: 107.4 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

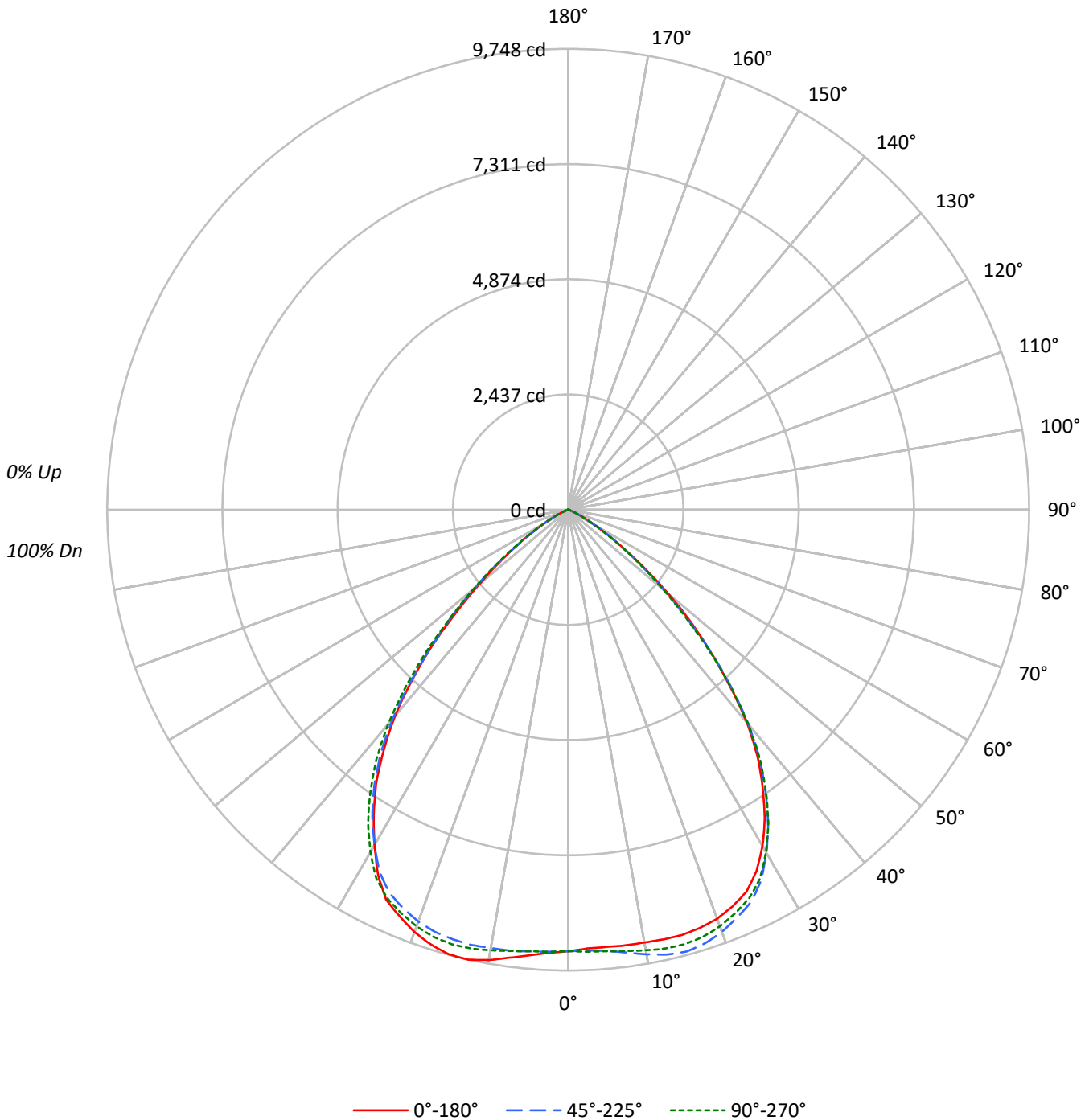
Input Watts (W): 158.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	287962	287962	287962
5°	287406	290167	292866
10°	291023	296340	302922
15°	297312	303751	310819
20°	302163	307736	311985
25°	303335	308282	309783
30°	292591	297704	291555
35°	269852	274584	266495
40°	236597	238368	229307
45°	185784	184270	177232
50°	132002	125837	117241
55°	78529	75707	70911
60°	39403	37781	37491
65°	16563	15950	16359
70°	6176	5328	5157
75°	2454	2681	2681
80°	2824	2007	675
85°	2972	5626	2335



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	898.1	5.3
10°-20°	2688.9	15.8
20°-30°	4132.6	24.3
30°-40°	4470.7	26.3
40°-50°	3222.4	18.9
50°-60°	1308.0	7.7
60°-70°	261.2	1.5
70°-80°	26.2	0.2
80°-90°	7.0	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°	7719.5	45.4
0°-40°	12190.2	71.6
0°-60°	16720.6	98.3
0°-90°	17015.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	17015.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	9338	9338	9338	9338	9338	
5°	9285	9364	9374	9378	9461	887
15°	9313	9674	9515	9409	9736	2631
25°	8915	9153	9061	8944	9105	4075
35°	7168	7274	7294	7145	7079	4451
45°	4260	4281	4226	4084	4064	3286
55°	1461	1416	1408	1360	1319	1370
65°	227	246	219	208	224	270
75°	21	25	22	22	22	27
85°	8	12	16	8	7	7
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°	9338.4	9338.4	9338.4	9338.4	9338.4	9338.4	9338.4	9338.4	9338.4
2.5°	9290.6	9349.7	9330.0	9304.6	9358.1	9347.8	9359.1	9363.7	9381.6
5°	9284.9	9351.6	9363.7	9336.5	9374.1	9356.2	9377.8	9418.2	9461.3
7.5°	9294.3	9394.7	9447.2	9431.3	9413.5	9352.5	9408.8	9501.7	9558.9
10°	9294.3	9427.5	9549.5	9548.6	9464.1	9350.6	9413.5	9573.9	9674.3
12.5°	9309.3	9472.6	9639.6	9650.8	9507.3	9363.7	9431.3	9620.8	9748.4
15°	9313.1	9473.5	9674.3	9679.9	9514.8	9345.9	9408.8	9612.4	9736.2
17.5°	9273.7	9428.5	9618.9	9638.6	9472.6	9300.9	9364.7	9546.7	9645.2
20°	9208.0	9346.9	9501.7	9534.5	9377.8	9214.6	9270.9	9427.5	9507.3
22.5°	9082.3	9209.0	9336.5	9360.9	9235.2	9092.6	9120.8	9242.7	9309.3
25°	8915.3	9041.0	9152.7	9165.8	9060.7	8933.1	8944.4	9037.3	9104.8
27.5°	8618.9	8738.0	8839.3	8855.3	8792.4	8656.4	8635.7	8679.8	8708.0
30°	8217.3	8298.9	8383.4	8434.0	8360.9	8248.3	8190.1	8213.6	8188.2
32.5°	7735.1	7818.6	7870.2	7886.2	7874.9	7776.4	7707.9	7648.8	7652.5
35°	7168.5	7244.5	7273.5	7302.6	7294.2	7217.2	7145.0	7089.7	7079.3
37.5°	6574.6	6625.3	6658.1	6680.6	6661.9	6613.1	6519.3	6423.6	6407.6
40°	5877.6	5954.5	5928.2	5939.5	5921.6	5859.7	5765.9	5711.5	5696.5
42.5°	5059.5	5127.0	5121.4	5125.2	5085.8	5001.3	4919.7	4889.7	4873.7
45°	4260.2	4293.0	4280.8	4241.4	4225.5	4172.9	4083.8	4026.6	4064.1
47.5°	3507.8	3496.5	3414.9	3383.0	3359.5	3367.0	3347.3	3247.0	3192.5
50°	2751.6	2722.5	2644.7	2596.8	2623.1	2643.7	2570.6	2510.5	2443.9
52.5°	2040.5	2046.1	1972.0	1919.5	1943.9	1947.6	1904.5	1870.7	1851.0
55°	1460.7	1460.7	1415.7	1398.8	1408.2	1390.3	1360.3	1349.1	1319.0
57.5°	993.5	1000.1	997.3	977.6	933.5	917.5	900.6	917.5	927.8
60°	638.9	654.8	652.0	650.1	612.6	575.1	591.0	606.0	607.9
62.5°	393.1	400.6	413.7	402.5	383.7	353.7	349.9	372.4	393.1
65°	227.0	235.5	245.8	238.3	218.6	213.9	208.3	220.5	224.2
67.5°	129.5	125.7	126.7	121.0	115.4	108.8	109.8	115.4	123.8
70°	68.5	59.1	60.0	54.4	59.1	52.5	50.7	55.4	57.2
72.5°	34.7	33.8	38.5	38.5	41.3	36.6	36.6	34.7	39.4
75°	20.6	23.5	25.3	28.1	22.5	21.6	21.6	21.6	22.5
77.5°	5.6	2.8	3.8	12.2	4.7	9.4	4.7	3.8	8.4
80°	15.9	9.4	5.6	10.3	11.3	5.6	14.1	13.1	3.8
82.5°	5.6	0.0	10.3	11.3	9.4	9.4	11.3	11.3	10.3
85°	8.4	5.6	12.2	14.1	15.9	9.4	7.5	4.7	6.6
87.5°	3.8	0.0	5.6	4.7	2.8	0.9	2.8	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)