

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: P247148

Luminaire Tested: **LSR8B100D010 EC8B100830 8LBW0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247148
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-58)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B100D010 EC8B100830 8LBW0H
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 3000 CCT WITH SEMI-SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10539.0 lumens
Efficiency: N/A
Efficacy: 99.1 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.13 / 1.06
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

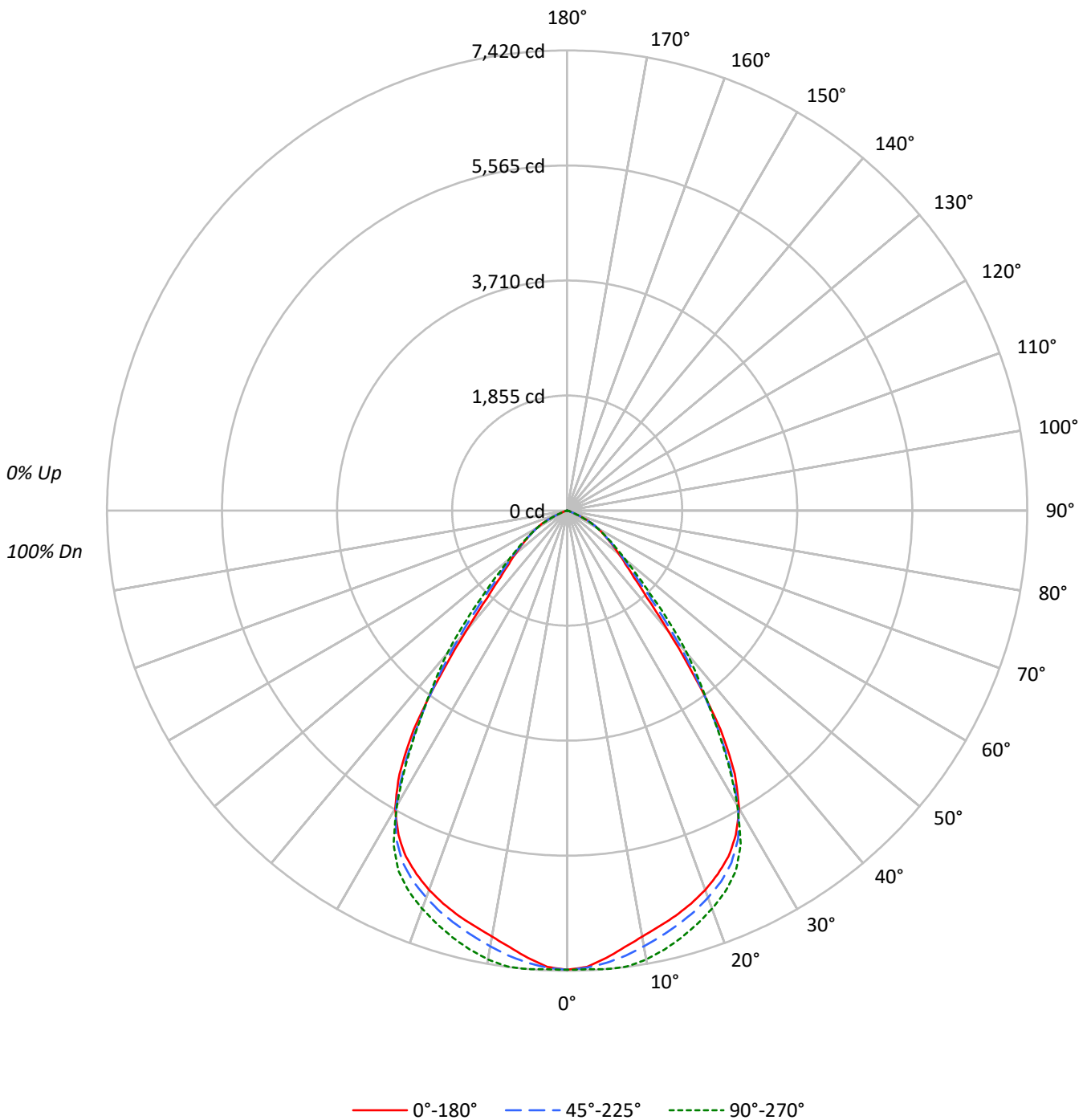
Input Watts (W): 106.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	86	84	82					82			
3	99	91	85	81	97	90	84	80	87	82	79	85	81	77	82	79	76	74					74			
4	93	84	77	72	91	82	76	72	80	75	71	78	74	70	76	72	69	67					67			
5	87	77	70	65	85	76	69	65	74	68	64	72	67	63	71	66	63	61					61			
6	81	71	64	59	80	70	64	59	69	63	58	67	62	58	66	61	57	56					56			
7	77	66	59	54	75	65	58	54	64	58	53	62	57	53	61	56	53	51					51			
8	72	61	54	49	71	60	54	49	59	53	49	58	53	49	57	52	49	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	47	42	63	53	46	42	52	46	42	51	46	42	50	45	42	40					40			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	228315	228315	228315
5°	224120	226559	229692
10°	218376	223349	230115
15°	215906	220653	227513
20°	213647	217953	224188
25°	209442	213229	218584
30°	197471	196581	195381
35°	162435	156837	155945
40°	101714	112228	121329
45°	66377	74005	82016
50°	52334	54852	58450
55°	42660	43402	44746
60°	34913	34679	34524
65°	22612	21977	20788
70°	7772	7213	6645
75°	2681	2526	2383
80°	1101	888	888
85°	425	425	425



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	693.6	6.6
10°-20°	1954.2	18.5
20°-30°	2858.0	27.1
30°-40°	2589.7	24.6
40°-50°	1377.0	13.1
50°-60°	734.9	7.0
60°-70°	299.8	2.8
70°-80°	30.2	0.3
80°-90°	1.7	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°	5505.7	52.2
0°-40°	8095.4	76.8
0°-60°	10207.3	96.9
0°-90°	10539.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10539.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7404	7404	7404	7404	7404	
5°	7240	7259	7319	7385	7420	683
15°	6763	6802	6912	7054	7127	1908
25°	6156	6182	6267	6374	6424	2813
35°	4315	4255	4166	4135	4143	2593
45°	1522	1567	1697	1832	1881	1245
55°	794	792	807	818	832	719
65°	310	309	301	284	285	309
75°	22	22	21	20	20	32
85°	1	1	1	1	1	2
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	7404.1	7404.1	7404.1	7404.1	7404.1
2.5°	7364.1	7362.9	7376.6	7392.9	7401.6
5°	7240.4	7259.2	7319.2	7385.4	7420.4
7.5°	7100.5	7135.5	7239.2	7352.9	7414.1
10°	6974.2	7019.2	7133.0	7281.7	7349.1
12.5°	6865.5	6909.3	7024.2	7176.7	7250.4
15°	6763.1	6801.8	6911.8	7054.2	7126.7
17.5°	6644.3	6681.8	6788.1	6923.0	6985.5
20°	6510.6	6541.9	6641.8	6768.1	6831.8
22.5°	6344.4	6378.2	6479.4	6595.6	6655.6
25°	6155.7	6182.0	6267.0	6374.4	6424.4
27.5°	5893.3	5917.1	5967.0	6024.5	6062.0
30°	5545.9	5539.7	5520.9	5503.4	5487.2
32.5°	5033.6	4973.6	4882.3	4824.9	4827.4
35°	4315.0	4255.0	4166.3	4135.1	4142.6
37.5°	3371.5	3416.5	3452.8	3512.7	3541.5
40°	2526.8	2604.3	2788.0	2947.9	3014.1
42.5°	1899.5	1975.7	2168.1	2336.8	2428.1
45°	1522.1	1567.1	1697.0	1832.0	1880.7
47.5°	1274.6	1294.6	1369.6	1455.8	1498.3
50°	1090.9	1103.4	1143.4	1190.9	1218.4
52.5°	934.7	939.7	959.7	987.2	1004.7
55°	793.5	792.3	807.3	818.5	832.3
57.5°	671.1	669.8	669.8	673.6	682.3
60°	566.1	562.3	562.3	557.3	559.8
62.5°	461.1	457.4	448.6	442.4	439.9
65°	309.9	308.7	301.2	283.7	284.9
67.5°	161.2	160.0	152.5	147.5	145.0
70°	86.2	83.7	80.0	76.2	73.7
72.5°	43.7	42.5	41.2	38.7	38.7
75°	22.5	22.5	21.2	20.0	20.0
77.5°	11.2	11.2	10.0	10.0	10.0
80°	6.2	6.2	5.0	5.0	5.0
82.5°	2.5	2.5	2.5	2.5	2.5
85°	1.2	1.2	1.2	1.2	1.2
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)