

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: P247931

Luminaire Tested: **LSR8B150D010 EC8B150935 8LBW0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247931
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 EC8B150935 8LBW0H
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
90 CRI 3500 CCT WITH SEMI-SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13873.0 lumens
Efficiency: N/A
Efficacy: 87.5 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

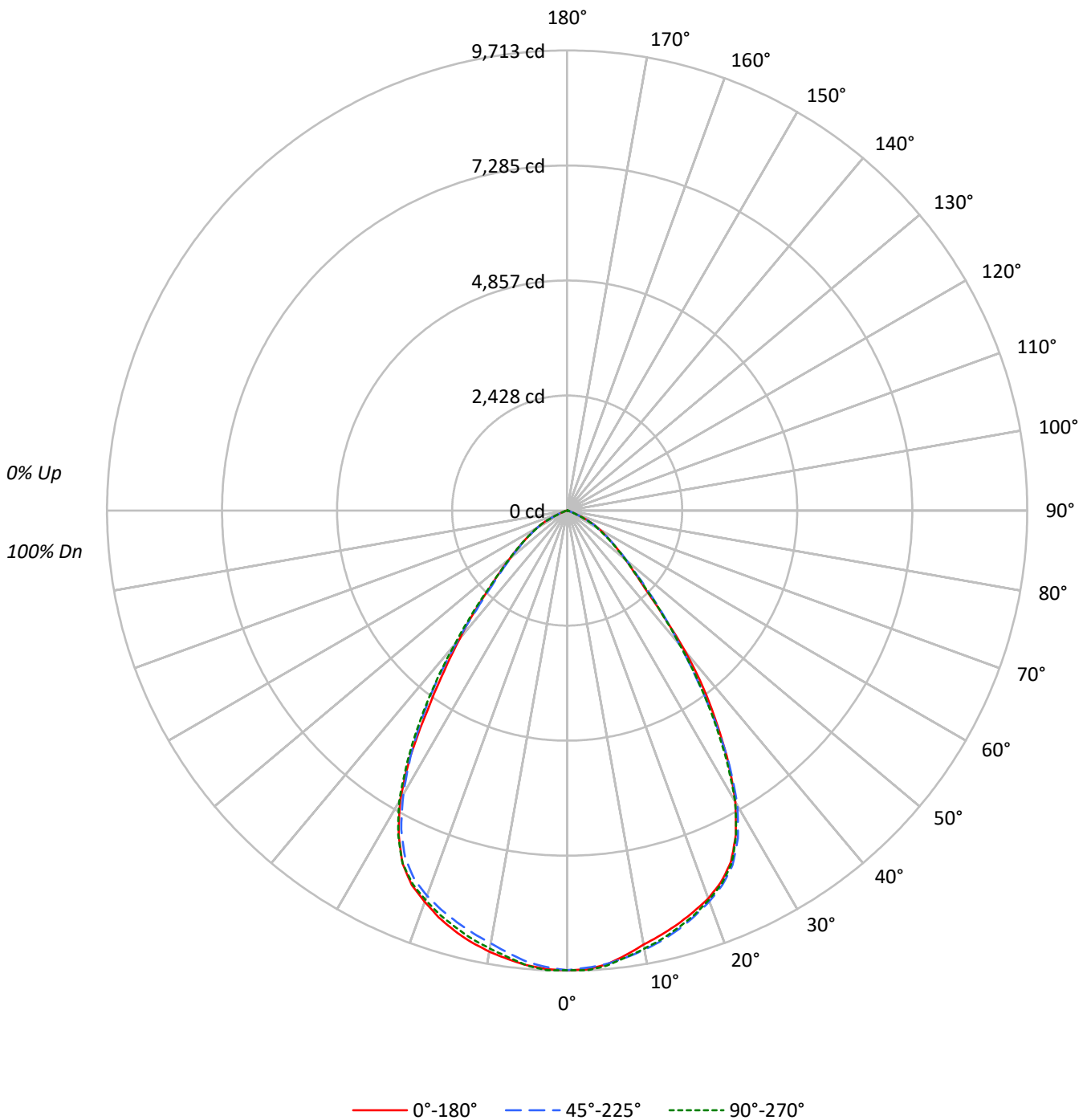
Input Watts (W): 158.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	299149	299149	299149
5°	297599	298444	298283
10°	291239	293935	295992
15°	288383	290698	293121
20°	285913	286947	288374
25°	278399	279471	279702
30°	252694	252452	250750
35°	208052	203399	193220
40°	155573	148569	141843
45°	100746	103384	101042
50°	77116	76708	76377
55°	60428	59326	58820
60°	48068	45440	46069
65°	31550	27873	28186
70°	11306	10377	10765
75°	4063	4980	4063
80°	2575	3640	3037
85°	601	1804	1203



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	908.7	6.5
10°-20°	2561.7	18.5
20°-30°	3714.1	26.8
30°-40°	3338.4	24.1
40°-50°	1881.2	13.6
50°-60°	1002.3	7.2
60°-70°	400.6	2.9
70°-80°	53.3	0.4
80°-90°	12.6	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°	7184.4	51.8
0°-40°	10522.9	75.9
0°-60°	13406.5	96.6
0°-90°	13873.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	13873.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	9701	9701	9701	9701	9701	
5°	9614	9606	9642	9566	9636	907
15°	9033	9138	9106	8993	9182	2549
25°	8182	8259	8214	8087	8221	3714
35°	5527	5448	5403	5328	5133	3429
45°	2310	2436	2371	2259	2317	1898
55°	1124	1127	1104	1078	1094	1024
65°	432	412	382	371	386	428
75°	34	44	42	41	34	51
85°	2	10	5	14	3	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°	9701.2	9701.2	9701.2	9701.2	9701.2	9701.2	9701.2	9701.2	9701.2
2.5°	9694.3	9673.9	9658.5	9687.5	9713.1	9643.2	9648.3	9679.0	9689.2
5°	9614.2	9595.4	9605.6	9629.5	9641.5	9553.6	9565.6	9617.6	9636.3
7.5°	9464.1	9478.6	9515.2	9545.9	9510.1	9406.9	9424.0	9513.5	9550.2
10°	9301.2	9335.3	9412.1	9447.9	9387.3	9255.2	9274.8	9395.0	9453.0
12.5°	9171.6	9209.1	9289.3	9316.6	9262.8	9120.4	9140.9	9265.4	9334.5
15°	9033.4	9067.5	9138.3	9160.5	9105.9	8974.6	8993.4	9112.7	9181.8
17.5°	8877.4	8907.2	8970.3	8990.8	8943.0	8804.0	8833.9	8944.7	9005.3
20°	8712.8	8734.1	8778.5	8790.4	8744.3	8639.5	8653.1	8748.6	8787.8
22.5°	8488.5	8515.8	8556.7	8569.5	8526.9	8411.8	8424.6	8518.4	8561.0
25°	8182.4	8222.4	8259.1	8275.3	8213.9	8061.3	8086.9	8167.0	8220.7
27.5°	7707.4	7739.8	7804.6	7806.3	7721.9	7563.3	7584.6	7687.8	7701.4
30°	7096.8	7126.6	7183.8	7171.0	7090.0	6901.5	6918.6	7019.2	7042.2
32.5°	6348.9	6360.0	6375.3	6371.1	6272.2	6183.5	6148.5	6160.4	6169.0
35°	5526.8	5546.4	5447.5	5393.8	5403.2	5410.8	5328.1	5205.3	5132.8
37.5°	4730.3	4636.5	4514.6	4472.8	4550.4	4576.0	4500.9	4317.6	4250.2
40°	3864.8	3781.2	3684.8	3692.5	3690.8	3708.7	3614.1	3546.7	3523.7
42.5°	2974.5	2975.3	3038.4	2994.9	2986.4	2861.9	2825.2	2862.8	2903.7
45°	2310.2	2386.9	2435.5	2422.7	2370.7	2259.0	2259.0	2324.7	2317.0
47.5°	1901.7	1929.0	1965.6	1963.1	1925.6	1843.7	1857.3	1902.5	1925.6
50°	1607.5	1619.4	1636.5	1622.0	1599.0	1547.8	1546.9	1578.5	1592.1
52.5°	1344.8	1351.6	1347.4	1339.7	1326.9	1299.6	1291.1	1317.5	1320.9
55°	1124.0	1136.7	1127.4	1106.0	1103.5	1078.8	1077.9	1099.2	1094.1
57.5°	936.3	923.6	910.8	892.9	890.3	882.6	891.1	894.6	889.4
60°	779.4	780.3	755.6	738.5	736.8	725.7	737.6	747.0	747.0
62.5°	627.6	624.2	608.9	583.3	587.6	583.3	588.4	590.1	582.4
65°	432.4	433.2	411.9	381.2	382.0	378.6	371.0	382.9	386.3
67.5°	230.2	228.5	212.3	201.3	197.0	198.7	207.2	209.8	200.4
70°	125.4	121.1	124.5	112.6	115.1	110.9	115.1	121.9	119.4
72.5°	64.0	68.2	61.4	56.3	63.1	62.3	72.5	66.5	59.7
75°	34.1	36.7	43.5	40.1	41.8	40.1	40.9	38.4	34.1
77.5°	24.7	27.3	31.6	30.7	29.8	28.1	31.6	35.0	28.1
80°	14.5	17.9	19.6	23.0	20.5	23.0	26.4	21.3	17.1
82.5°	9.4	14.5	14.5	15.3	22.2	14.5	23.9	21.3	17.1
85°	1.7	2.6	10.2	6.0	5.1	15.3	14.5	11.1	3.4
87.5°	0.0	6.0	13.6	6.8	11.1	10.2	14.5	15.3	3.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)