

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: P248171

Luminaire Tested: **LSR8B150D010 EC8B150840 8LBW0GPH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248171
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-73)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B150D010 EC8B150840 8LBW0GPH
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 4000 CCT WITH GRAPHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14426.0 lumens
Efficiency: N/A
Efficacy: 91.0 lumens/watt
Spacing Criteria (0/90/45): 1.11 / 1.11 / 1.05
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

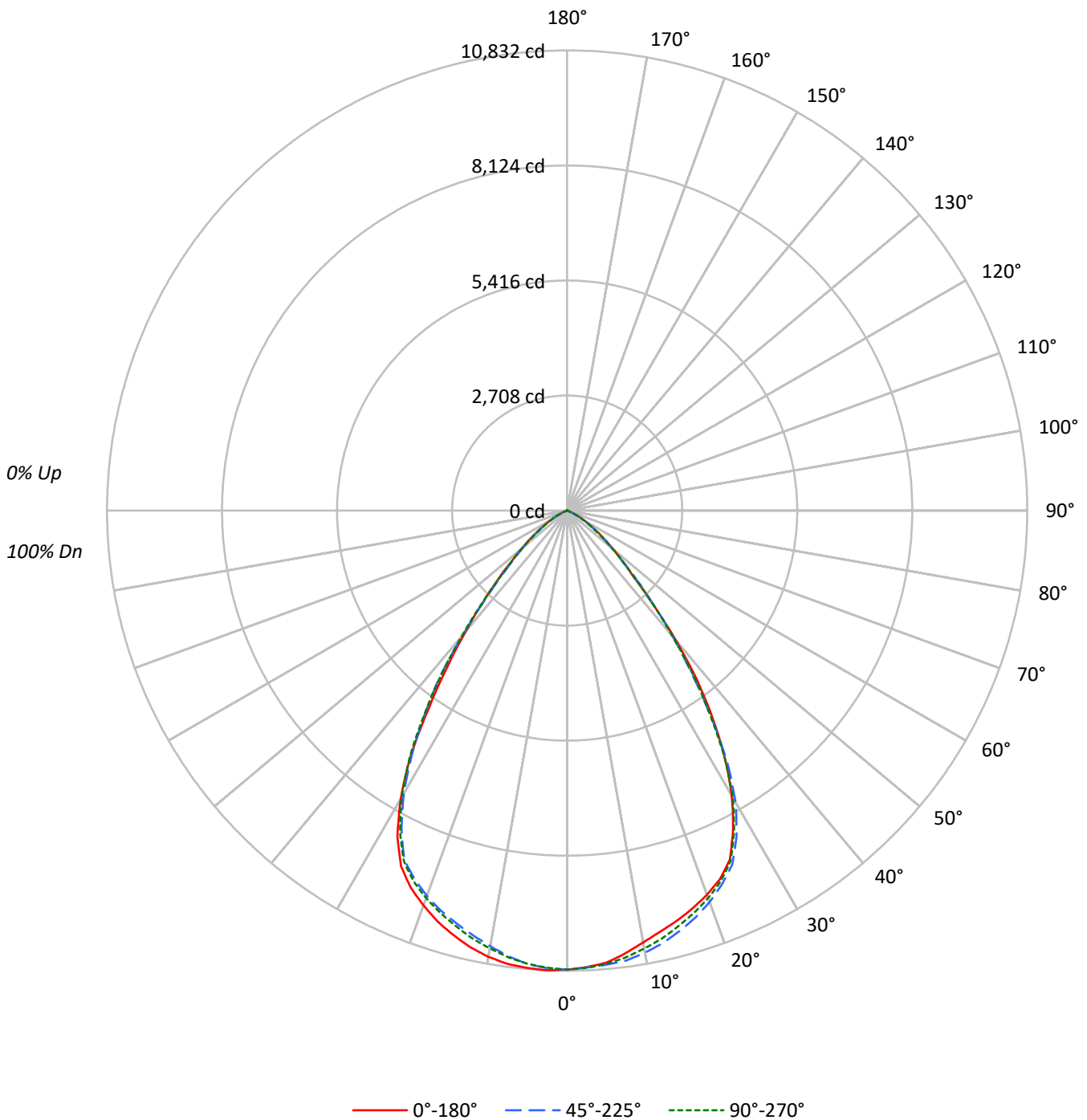
Input Watts (W): 158.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P248171

CATALOG NUMBER: LSR8B150D010 EC8B150840 8LBW0GPH

Luminous Intensity Polar Plot





TEST NUMBER: P248171

CATALOG NUMBER: LSR8B150D010 EC8B150840 8LBW0GPH

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	100	96	95	94	92		
1	113	110	107	104	110	107	105	103	103	101	100	100	98	97	96	95	94	92	92	92	90	87	85	84		
2	106	101	96	92	104	99	95	91	96	92	89	93	90	87	90	87	85	84	84	84	82	79	84	80	78	76
3	100	92	87	82	98	91	86	82	88	84	80	86	82	79	84	80	78	76	76	76	74	71	69	69		
4	94	85	79	74	92	84	78	74	82	77	73	80	75	72	78	74	71	69	69	69	67	63	60	58		
5	88	79	72	67	86	78	71	67	76	70	66	74	69	65	72	68	65	63	63	63	61	57	54	51		
6	83	73	66	61	81	72	66	61	70	65	60	69	64	60	67	63	60	58	58	58	56	52	49	47		
7	78	68	61	56	77	67	60	56	65	60	55	64	59	55	63	58	55	53	53	53	51	47	45	45		
8	74	63	56	51	72	62	56	51	61	55	51	60	55	51	59	54	51	49	49	49	47	43	41	41		
9	70	59	52	48	68	58	52	47	57	51	47	56	51	47	55	50	47	45	45	45	43	41	41	41		
10	66	55	48	44	65	54	48	44	54	48	44	53	47	44	52	47	44	42	42	42	41	41	41	41		

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	333183	333183	333183
5°	330611	331534	334546
10°	323171	327746	333968
15°	319024	323305	330252
20°	315769	318542	324507
25°	308371	309623	314556
30°	276023	277437	278993
35°	224950	220422	213917
40°	159522	155082	149366
45°	97261	98910	100903
50°	67200	65958	67344
55°	45611	42407	43740
60°	29591	25791	27080
65°	15585	12397	13338
70°	4120	3489	3138
75°	715	1418	834
80°	0	0	355
85°	708	708	708



TEST NUMBER: P248171

CATALOG NUMBER: LSR8B150D010 EC8B150840 8LBW0GPH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1015.9	7.0
10°-20°	2862.0	19.8
20°-30°	4127.0	28.6
30°-40°	3624.5	25.1
40°-50°	1832.7	12.7
50°-60°	750.2	5.2
60°-70°	197.2	1.4
70°-80°	13.9	0.1
80°-90°	2.5	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°	8005.0	55.5
0°-40°	11629.5	80.6
0°-60°	14212.4	98.5
0°-90°	14426.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	14426.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	10805	10805	10805	10805	10805	
5°	10681	10729	10710	10710	10808	###
15°	9993	10241	10127	10062	10345	2820
25°	9063	9194	9100	9067	9245	4095
35°	5976	5873	5855	5831	5683	3684
45°	2230	2335	2268	2210	2314	1840
55°	848	815	789	787	814	784
65°	214	190	170	168	183	218
75°	6	4	12	4	7	15
85°	2	2	2	1	2	4
90°	0	0	0	0	0	



TEST NUMBER: P248171

CATALOG NUMBER: LSR8B150D010 EC8B150840 8LBW0GPH

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	10804.9	10804.9	10804.9	10804.9	10804.9	10804.9	10804.9	10804.9	10804.9
2.5°	10755.2	10807.8	10761.1	10789.0	10770.1	10739.3	10782.0	10762.1	10831.7
5°	10680.7	10744.3	10729.4	10764.1	10710.5	10653.9	10710.5	10715.4	10807.8
7.5°	10510.8	10620.1	10682.7	10724.4	10606.2	10513.8	10581.3	10641.9	10761.1
10°	10321.0	10453.2	10566.4	10631.0	10467.1	10332.0	10412.4	10515.8	10665.8
12.5°	10146.2	10292.2	10426.4	10488.9	10316.1	10164.1	10240.6	10368.7	10529.7
15°	9993.2	10113.4	10240.6	10305.2	10127.3	9983.3	10061.8	10180.0	10344.9
17.5°	9818.4	9931.6	10043.9	10094.5	9929.6	9804.4	9876.0	9977.3	10141.2
20°	9622.6	9720.0	9805.4	9865.0	9707.1	9587.9	9652.4	9746.8	9888.9
22.5°	9393.2	9466.7	9522.3	9576.0	9447.8	9329.6	9385.2	9459.7	9609.7
25°	9063.3	9137.8	9193.5	9254.1	9100.1	8998.8	9067.3	9099.1	9245.1
27.5°	8459.3	8553.7	8637.1	8690.8	8514.9	8427.5	8445.4	8498.0	8653.0
30°	7752.0	7797.7	7924.8	7940.7	7791.7	7639.7	7688.4	7744.0	7835.4
32.5°	6911.5	6937.3	7010.8	7018.8	6907.5	6790.3	6791.3	6766.4	6858.8
35°	5975.7	5917.0	5873.3	5903.1	5855.4	5876.3	5830.6	5716.4	5682.6
37.5°	5009.0	4971.3	4779.5	4764.6	4875.9	4943.5	4898.7	4644.4	4626.5
40°	3962.9	3920.2	3848.7	3837.7	3852.6	3891.4	3808.9	3733.4	3710.6
42.5°	2965.5	2988.3	3011.2	3032.0	2989.3	2905.9	2901.9	2888.0	2941.6
45°	2230.3	2279.0	2334.6	2362.4	2268.1	2203.5	2210.4	2241.2	2313.8
47.5°	1763.4	1773.3	1794.2	1818.0	1762.4	1679.9	1701.8	1751.5	1783.3
50°	1400.8	1410.7	1404.8	1401.8	1374.9	1325.3	1356.1	1392.8	1403.8
52.5°	1104.7	1091.8	1080.9	1073.9	1057.0	1037.2	1043.1	1073.9	1090.8
55°	848.4	838.5	814.6	804.7	788.8	783.8	786.8	810.7	813.6
57.5°	637.8	623.9	600.0	581.2	582.2	574.2	578.2	595.1	604.0
60°	479.8	470.9	429.2	432.2	418.2	416.3	425.2	435.1	439.1
62.5°	331.8	334.8	303.0	299.0	292.1	293.1	299.0	307.0	308.0
65°	213.6	200.7	189.8	181.8	169.9	163.9	167.9	189.8	182.8
67.5°	83.5	88.4	71.5	83.5	77.5	65.6	75.5	84.4	80.5
70°	45.7	46.7	38.7	36.8	38.7	35.8	40.7	45.7	34.8
72.5°	28.8	28.8	20.9	20.9	26.8	17.9	20.9	32.8	25.8
75°	6.0	7.0	4.0	2.0	11.9	6.0	4.0	11.9	7.0
77.5°	0.0	7.0	0.0	0.0	0.0	0.0	2.0	2.0	2.0
80°	0.0	0.0	0.0	3.0	0.0	0.0	0.0	2.0	2.0
82.5°	0.0	2.0	0.0	0.0	0.0	0.0	0.0	2.0	0.0
85°	2.0	7.9	2.0	0.0	2.0	2.0	1.0	6.0	2.0
87.5°	12.9	6.0	1.0	6.0	5.0	6.0	7.0	6.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)