

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: P248162

Luminaire Tested: **LSR8B150D010 EC8B150827 8LBW0GPH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P248162  
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 EC8B150827 8LBW0GPH  
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
80 CRI 2700 CCT WITH GRAPHITE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 13623.0 lumens  
Efficiency: N/A  
Efficacy: 85.9 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

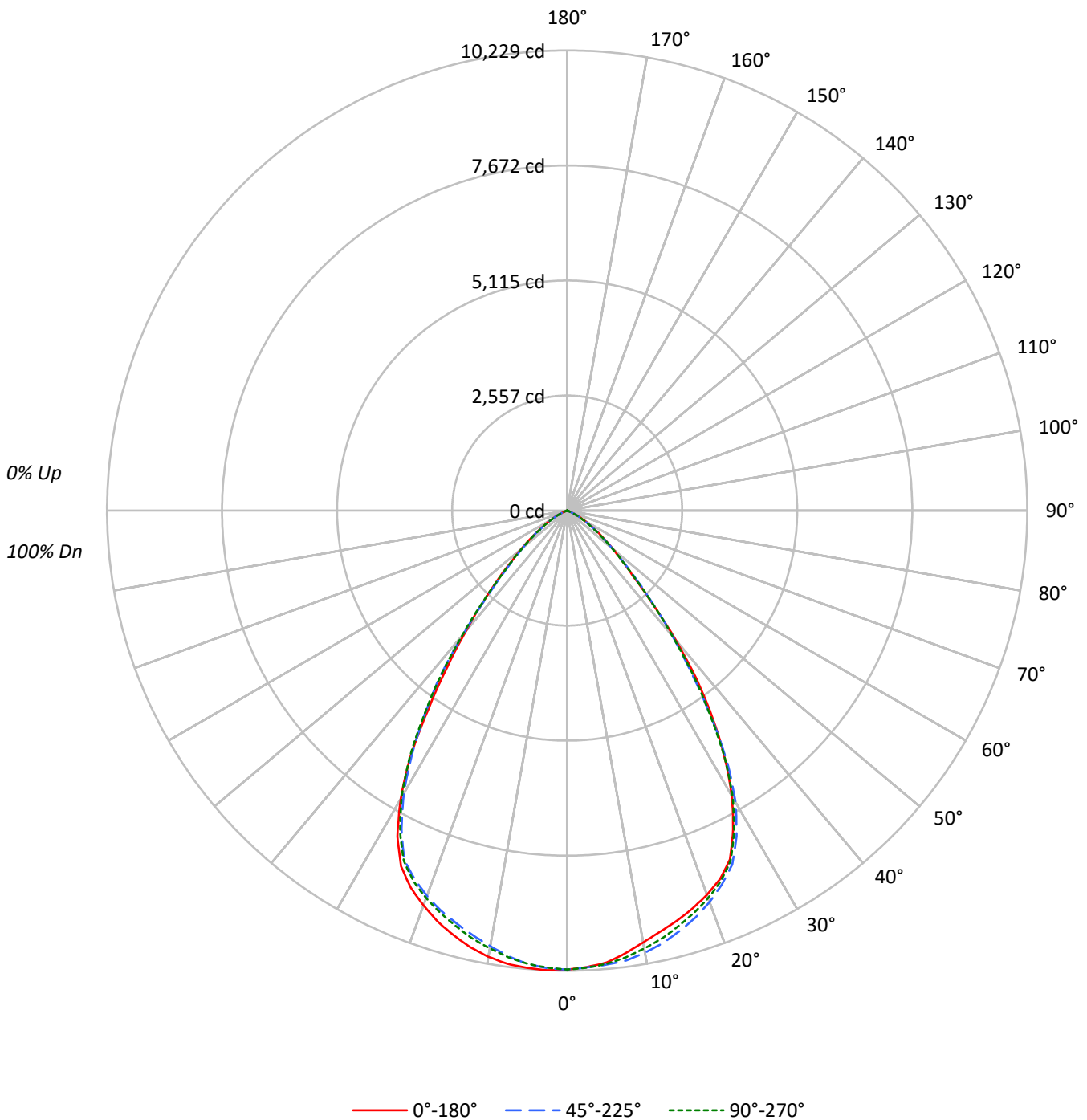
Input Watts (W): 158.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°
0°	314635	314635	314635
5°	312209	313079	315924
10°	305183	309504	315378
15°	301265	305309	311870
20°	298193	300811	306443
25°	291206	292386	297047
30°	260659	261994	263465
35°	212426	208154	202010
40°	150642	146452	141050
45°	91850	93402	95286
50°	63458	62288	63593
55°	43074	40047	41310
60°	27944	24361	25576
65°	14717	11704	12594
70°	3895	3300	2957
75°	667	1346	786
80°	0	0	337
85°	672	672	672



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	959.4	7.0
10°-20°	2702.7	19.8
20°-30°	3897.3	28.6
30°-40°	3422.8	25.1
40°-50°	1730.7	12.7
50°-60°	708.4	5.2
60°-70°	186.2	1.4
70°-80°	13.2	0.1
80°-90°	2.4	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°	7559.4	55.5
0°-40°	10982.1	80.6
0°-60°	13421.3	98.5
0°-90°	13623.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	13623.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	10203	10203	10203	10203	10203	
5°	10086	10132	10114	10114	10206	951
15°	9437	9671	9564	9502	9769	2663
25°	8559	8682	8594	8563	8730	3867
35°	5643	5546	5530	5506	5366	3479
45°	2106	2205	2142	2087	2185	1738
55°	801	769	745	743	768	740
65°	202	179	160	158	173	206
75°	6	4	11	4	7	14
85°	2	2	2	1	2	4
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°	10203.4	10203.4	10203.4	10203.4	10203.4	10203.4	10203.4	10203.4	10203.4
2.5°	10156.5	10206.2	10162.1	10188.4	10170.6	10141.5	10181.8	10163.1	10228.8
5°	10086.2	10146.2	10132.1	10165.0	10114.3	10060.8	10114.3	10119.0	10206.2
7.5°	9925.7	10028.9	10088.0	10127.4	10015.8	9928.5	9992.3	10049.6	10162.1
10°	9746.5	9871.3	9978.3	10039.2	9884.5	9756.9	9832.9	9930.4	10072.1
12.5°	9581.4	9719.3	9846.0	9905.1	9741.9	9598.3	9670.6	9791.6	9943.6
15°	9436.9	9550.5	9670.6	9731.5	9563.6	9427.6	9501.7	9613.3	9769.1
17.5°	9271.8	9378.8	9484.8	9532.6	9376.9	9258.7	9326.2	9421.9	9576.7
20°	9087.0	9179.0	9259.6	9315.9	9166.8	9054.2	9115.2	9204.3	9338.4
22.5°	8870.3	8939.7	8992.3	9042.9	8921.9	8810.3	8862.8	8933.2	9074.8
25°	8558.8	8629.2	8681.7	8739.0	8593.5	8497.9	8562.6	8592.6	8730.5
27.5°	7988.4	8077.6	8156.4	8207.0	8041.0	7958.4	7975.3	8025.0	8171.4
30°	7320.5	7363.6	7483.7	7498.7	7358.0	7214.4	7260.4	7313.0	7399.3
32.5°	6526.8	6551.2	6620.6	6628.1	6523.0	6412.3	6413.3	6389.8	6477.1
35°	5643.0	5587.7	5546.4	5574.5	5529.5	5549.2	5506.1	5398.2	5366.3
37.5°	4730.2	4694.6	4513.5	4499.4	4604.5	4668.3	4626.1	4385.9	4369.0
40°	3742.3	3702.0	3634.4	3624.1	3638.2	3674.8	3596.9	3525.6	3504.0
42.5°	2800.4	2822.0	2843.6	2863.3	2822.9	2744.1	2740.4	2727.2	2777.9
45°	2106.2	2152.1	2204.7	2230.9	2141.8	2080.8	2087.4	2116.5	2185.0
47.5°	1665.2	1674.6	1694.3	1716.8	1664.3	1586.4	1607.1	1654.0	1684.0
50°	1322.8	1332.2	1326.6	1323.7	1298.4	1251.5	1280.6	1315.3	1325.6
52.5°	1043.2	1031.0	1020.7	1014.2	998.2	979.4	985.1	1014.2	1030.1
55°	801.2	791.8	769.3	759.9	744.9	740.2	743.0	765.5	768.4
57.5°	602.3	589.2	566.6	548.8	549.8	542.3	546.0	562.0	570.4
60°	453.1	444.7	405.3	408.1	395.0	393.1	401.5	410.9	414.7
62.5°	313.3	316.2	286.1	282.4	275.8	276.8	282.4	289.9	290.8
65°	201.7	189.5	179.2	171.7	160.4	154.8	158.5	179.2	172.6
67.5°	78.8	83.5	67.5	78.8	73.2	61.9	71.3	79.7	76.0
70°	43.2	44.1	36.6	34.7	36.6	33.8	38.5	43.2	32.8
72.5°	27.2	27.2	19.7	19.7	25.3	16.9	19.7	31.0	24.4
75°	5.6	6.6	3.8	1.9	11.3	5.6	3.8	11.3	6.6
77.5°	0.0	6.6	0.0	0.0	0.0	0.0	1.9	1.9	1.9
80°	0.0	0.0	0.0	2.8	0.0	0.0	0.0	1.9	1.9
82.5°	0.0	1.9	0.0	0.0	0.0	0.0	0.0	1.9	0.0
85°	1.9	7.5	1.9	0.0	1.9	1.9	0.9	5.6	1.9
87.5°	12.2	5.6	0.9	5.6	4.7	5.6	6.6	5.6	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)