

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: P248150

Luminaire Tested: **LSR8B150D010 EC8B150940 8LBS0WH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P248150  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-94)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSR8B150D010 EC8B150940 8LBS0WH  
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
90 CRI 4000 CCT WITH WHEAT TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 16095.0 lumens  
Efficiency: N/A  
Efficacy: 101.5 lumens/watt  
Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.23  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

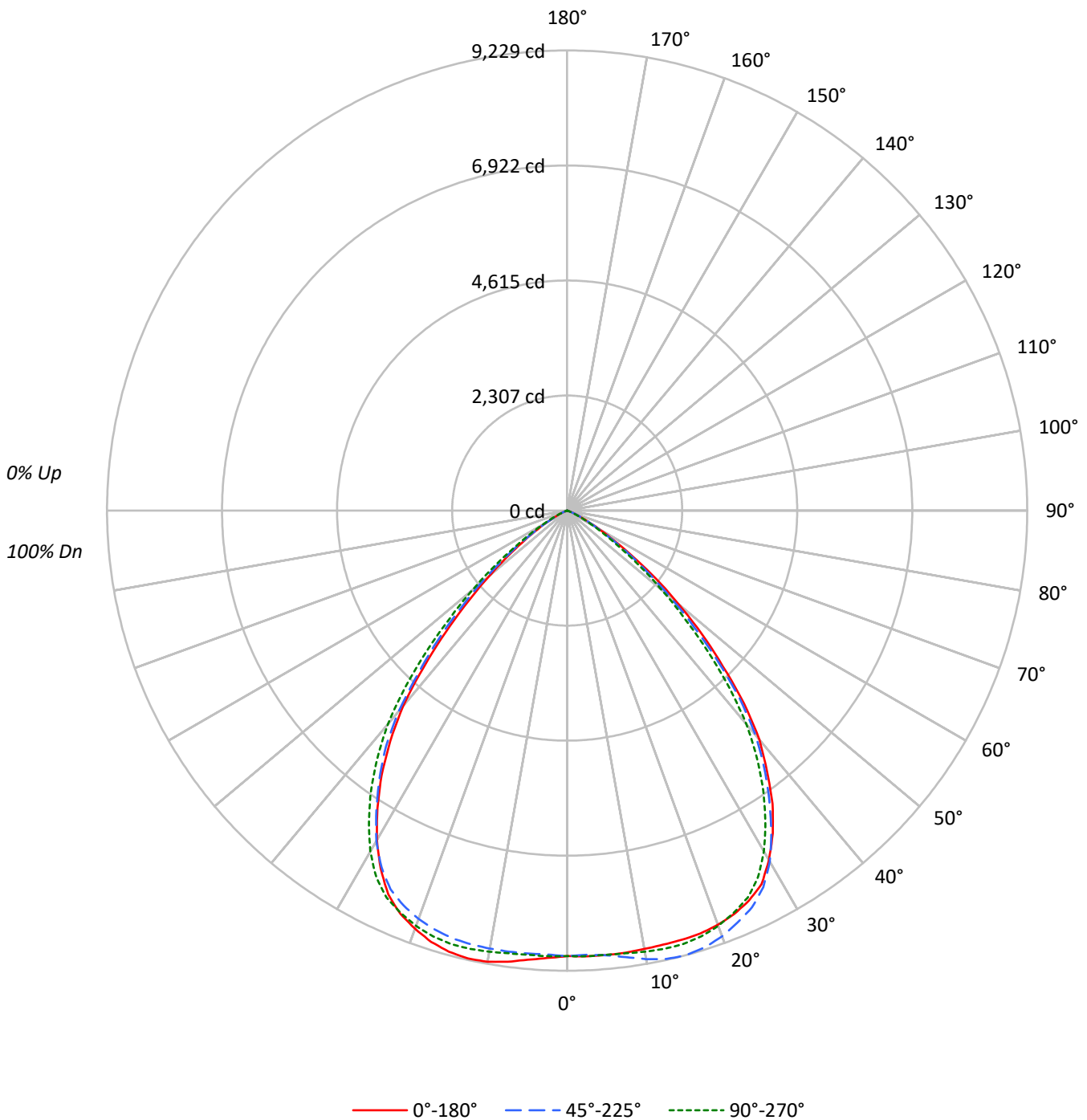
Input Watts (W): 158.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	96	94	93	91					91			
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	86	84	82					82			
3	98	90	84	79	96	89	83	79	86	81	78	84	80	76	81	78	75	73					73			
4	92	82	76	71	90	81	75	70	79	74	69	77	72	68	75	71	68	66					66			
5	86	75	68	63	84	74	68	63	72	67	62	71	66	62	69	65	61	59					59			
6	80	69	62	57	78	68	61	56	67	61	56	65	60	56	64	59	55	53					53			
7	75	64	56	51	73	63	56	51	62	55	51	60	55	50	59	54	50	48					48			
8	70	59	52	47	69	58	51	46	57	51	46	56	50	46	55	50	46	44					44			
9	66	54	47	43	65	54	47	43	53	47	42	52	46	42	51	46	42	40					40			
10	62	51	44	39	61	50	44	39	49	43	39	48	43	39	48	42	39	37					37			

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

	0°	90°	180°
0°	275532	275532	275532
5°	276999	276807	279865
10°	279560	281235	287676
15°	284457	287301	292361
20°	290117	290878	292864
25°	293652	291440	288895
30°	288126	281083	271633
35°	270312	258273	244160
40°	241475	225124	206120
45°	192578	173351	150242
50°	139510	119083	96996
55°	86529	70390	55643
60°	44497	34993	27962
65°	18978	14235	10916
70°	6023	2975	1929
75°	1597	953	953
80°	1261	799	639
85°	955	318	318



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	856.7	5.3
10°-20°	2550.0	15.8
20°-30°	3919.5	24.4
30°-40°	4237.0	26.3
40°-50°	3048.9	18.9
50°-60°	1230.3	7.6
60°-70°	236.6	1.5
70°-80°	14.1	0.1
80°-90°	2.0	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°	7326.3	45.5
0°-40°	11563.2	71.8
0°-60°	15842.4	98.4
0°-90°	16095.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	16095.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	8935	8935	8935	8935	8935	
5°	8949	8951	8942	8917	9041	854
15°	8910	9229	9000	8881	9158	2522
25°	8631	8779	8566	8381	8491	3960
35°	7181	7067	6861	6564	6486	4447
45°	4416	4285	3975	3649	3445	3411
55°	1610	1488	1309	1131	1035	1500
65°	260	265	195	152	150	304
75°	13	11	8	8	8	22
85°	3	2	1	1	1	3
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°	8935.3	8935.3	8935.3	8935.3	8935.3	8935.3	8935.3	8935.3	8935.3
2.5°	8948.7	8936.2	8918.4	8917.5	8946.0	8930.0	8910.4	8930.9	8981.7
5°	8948.7	8950.5	8951.4	8943.4	8942.5	8915.7	8916.6	8971.9	9041.3
7.5°	8942.5	8977.2	9031.5	9019.1	8956.7	8897.9	8922.0	9033.3	9125.9
10°	8928.2	9009.3	9134.0	9115.3	8981.7	8881.9	8920.2	9075.2	9187.4
12.5°	8915.7	9027.1	9211.4	9189.2	9002.1	8871.2	8909.5	9080.5	9201.6
15°	8910.4	9030.6	9229.3	9201.6	8999.5	8849.8	8881.0	9041.3	9158.0
17.5°	8890.8	9003.0	9184.7	9150.9	8953.1	8800.0	8813.3	8959.4	9069.8
20°	8840.9	8937.1	9085.9	9039.5	8864.1	8710.0	8714.4	8824.9	8924.6
22.5°	8756.3	8832.0	8939.8	8895.3	8731.4	8591.5	8572.8	8665.5	8749.2
25°	8630.7	8692.2	8778.6	8730.5	8565.7	8423.2	8381.3	8440.1	8490.9
27.5°	8446.3	8467.7	8516.7	8442.8	8290.5	8150.6	8063.4	8072.3	8099.0
30°	8091.9	8126.6	8131.0	8046.4	7894.1	7732.0	7651.9	7607.3	7628.7
32.5°	7675.0	7665.2	7620.7	7518.3	7398.9	7269.8	7118.3	7067.6	7079.2
35°	7180.7	7157.5	7066.7	6968.7	6860.9	6702.4	6564.3	6489.5	6486.0
37.5°	6578.6	6547.4	6487.7	6352.4	6253.5	6119.9	5969.4	5886.5	5824.2
40°	5998.8	5949.8	5879.4	5717.3	5592.6	5406.4	5252.4	5137.5	5120.5
42.5°	5250.6	5226.5	5125.9	4962.9	4807.0	4587.0	4408.0	4311.8	4261.9
45°	4416.0	4416.0	4285.1	4141.7	3975.1	3811.2	3649.1	3505.7	3445.2
47.5°	3668.7	3576.1	3452.3	3299.1	3177.1	3061.3	2889.4	2713.0	2672.0
50°	2908.1	2849.3	2703.2	2557.2	2482.3	2371.9	2236.5	2065.5	2021.9
52.5°	2247.2	2154.6	2028.1	1919.4	1849.1	1762.7	1615.7	1499.0	1476.8
55°	1609.5	1562.3	1488.3	1399.3	1309.3	1218.5	1131.2	1064.4	1035.0
57.5°	1102.7	1086.6	1025.2	972.6	885.3	805.2	725.0	703.6	705.4
60°	721.5	720.6	690.3	643.1	567.4	494.3	456.9	446.2	453.4
62.5°	436.4	444.5	436.4	408.8	350.9	294.8	268.1	273.4	269.0
65°	260.1	268.1	265.4	229.8	195.1	171.0	152.3	145.2	149.6
67.5°	151.4	147.0	135.4	118.5	97.1	80.2	67.7	61.5	62.3
70°	66.8	63.2	57.0	43.6	33.0	26.7	22.3	20.5	21.4
72.5°	24.9	24.0	20.5	16.9	14.3	11.6	10.7	10.7	10.7
75°	13.4	12.5	10.7	8.9	8.0	8.0	8.0	8.0	8.0
77.5°	9.8	8.9	8.0	7.1	6.2	5.3	5.3	5.3	5.3
80°	7.1	6.2	5.3	4.5	4.5	3.6	3.6	3.6	3.6
82.5°	4.5	4.5	3.6	2.7	2.7	1.8	1.8	1.8	1.8
85°	2.7	2.7	1.8	1.8	0.9	0.9	0.9	0.9	0.9
87.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)