

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: P248063

Luminaire Tested: **LSR8B150D010 EC8B150840 8LBS0WMH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P248063  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-93)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSR8B150D010 EC8B150840 8LBS0WMH  
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
80 CRI 4000 CCT WITH WARM HAZE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 17202.0 lumens  
Efficiency: N/A  
Efficacy: 108.5 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.22  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

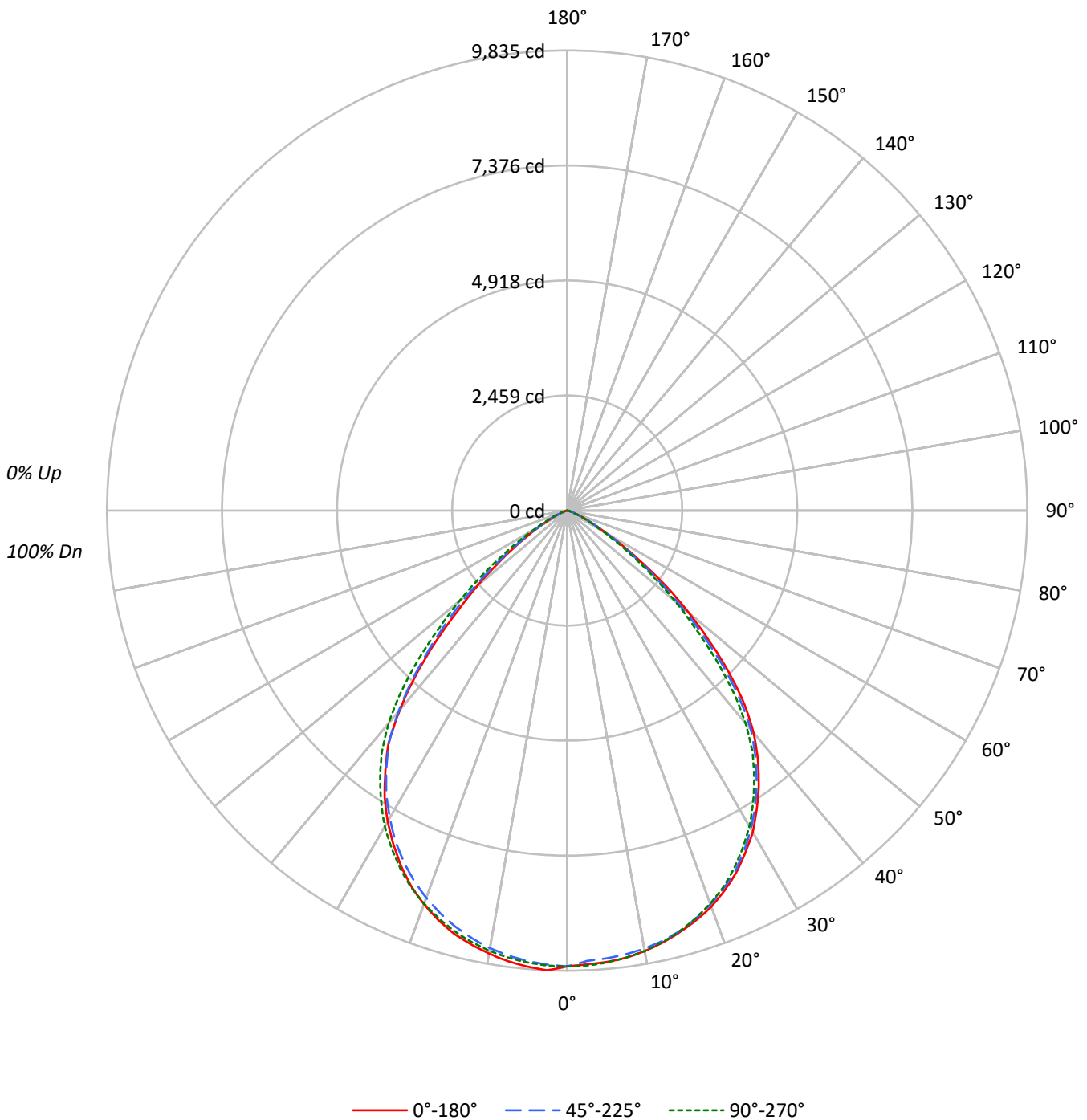
Input Watts (W): 158.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	109	106	104	101	102	100	98	99	97	95	95	94	92	90					90			
2	105	99	93	89	102	97	92	88	93	90	86	90	87	84	87	85	83	81					81			
3	97	89	83	78	95	88	82	77	85	80	76	83	78	75	80	77	74	72					72			
4	91	81	74	69	89	80	74	69	78	72	68	76	71	67	74	69	66	64					64			
5	85	74	67	61	83	73	66	61	71	65	61	69	64	60	68	63	59	58					58			
6	79	68	60	55	77	67	60	55	65	59	54	64	58	54	62	57	54	52					52			
7	74	62	55	50	72	62	55	50	60	54	49	59	53	49	58	53	49	47					47			
8	69	57	50	45	68	57	50	45	56	49	45	54	49	45	53	48	44	43					43			
9	65	53	46	41	64	53	46	41	52	45	41	51	45	41	50	44	41	39					39			
10	61	49	42	38	60	49	42	38	48	42	38	47	41	37	46	41	37	36					36			

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

	0°	90°	180°
0°	300438	300438	300438
5°	299834	300140	302815
10°	299412	299224	301059
15°	297683	297146	298762
20°	295692	293346	293802
25°	290699	287215	285493
30°	282536	277547	273160
35°	268859	262388	255096
40°	249667	238947	224190
45°	212808	195870	173905
50°	162042	144360	120436
55°	106819	93093	74987
60°	59983	52755	41419
65°	31462	28128	20007
70°	15048	13253	8331
75°	8519	9234	5802
80°	6535	6357	3356
85°	3856	3149	1415



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	920.1	5.3
10°-20°	2620.7	15.2
20°-30°	3871.6	22.5
30°-40°	4314.5	25.1
40°-50°	3407.3	19.8
50°-60°	1573.5	9.1
60°-70°	404.2	2.3
70°-80°	77.8	0.5
80°-90°	12.2	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°	7412.4	43.1
0°-40°	11726.9	68.2
0°-60°	16707.7	97.1
0°-90°	17202.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	17202.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	9743	9743	9743	9743	9743	
5°	9686	9609	9696	9666	9783	921
15°	9325	9303	9308	9210	9358	2632
25°	8544	8504	8442	8273	8391	3926
35°	7142	7063	6970	6738	6776	4447
45°	4880	4738	4492	4133	3988	3724
55°	1987	1873	1732	1482	1395	1841
65°	431	437	386	295	274	473
75°	72	76	78	59	49	86
85°	11	11	9	5	4	15
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°	9743.0	9743.0	9743.0	9743.0	9743.0	9743.0	9743.0	9743.0	9743.0
2.5°	9706.2	9751.9	9635.7	9730.1	9734.1	9667.5	9713.2	9767.8	9835.4
5°	9686.4	9733.1	9608.9	9696.3	9696.3	9623.8	9666.5	9714.2	9782.7
7.5°	9639.7	9690.3	9568.1	9649.6	9636.7	9557.2	9595.0	9641.7	9715.2
10°	9562.2	9624.8	9505.6	9583.1	9556.2	9464.8	9497.6	9546.3	9614.8
12.5°	9455.9	9530.4	9419.1	9486.7	9444.0	9339.6	9366.5	9429.1	9496.6
15°	9324.7	9401.2	9302.9	9361.5	9307.9	9191.6	9210.5	9274.1	9358.5
17.5°	9178.7	9253.2	9142.9	9206.5	9135.0	9014.8	9021.7	9095.3	9171.8
20°	9010.8	9072.4	8959.1	9019.8	8939.3	8807.1	8808.1	8873.7	8953.2
22.5°	8790.3	8854.8	8737.6	8788.3	8714.8	8573.7	8556.8	8620.4	8696.9
25°	8543.9	8611.4	8504.1	8522.0	8441.5	8295.5	8272.7	8319.4	8390.9
27.5°	8248.8	8315.4	8194.2	8217.0	8128.6	7988.5	7957.7	7982.6	8039.2
30°	7934.9	7976.6	7861.4	7880.2	7794.8	7628.9	7582.2	7616.0	7671.6
32.5°	7548.4	7578.2	7479.9	7489.8	7397.4	7254.3	7192.8	7202.7	7259.3
35°	7142.1	7158.0	7062.6	7064.6	6970.2	6825.2	6737.7	6732.8	6776.5
37.5°	6694.0	6705.0	6608.6	6603.6	6506.3	6349.3	6257.9	6242.0	6268.8
40°	6202.3	6217.2	6116.8	6085.0	5936.0	5757.2	5608.2	5580.3	5569.4
42.5°	5606.2	5565.4	5460.1	5406.5	5256.5	5027.0	4888.9	4847.2	4811.4
45°	4879.9	4847.2	4737.9	4616.7	4491.5	4318.6	4132.9	4018.6	3987.8
47.5°	4117.9	4079.2	3922.2	3815.9	3692.7	3613.3	3413.6	3237.7	3161.2
50°	3377.8	3335.1	3160.2	3081.8	3009.2	2891.0	2697.3	2539.3	2510.5
52.5°	2693.3	2628.7	2478.7	2397.3	2332.7	2201.5	2026.7	1935.3	1886.6
55°	1986.9	1977.0	1872.7	1814.1	1731.6	1627.3	1482.3	1413.7	1394.8
57.5°	1447.5	1410.7	1371.0	1321.3	1249.8	1118.7	1029.2	977.6	973.6
60°	972.6	984.5	984.5	929.9	855.4	769.9	698.4	670.6	671.6
62.5°	652.7	660.7	658.7	634.8	577.2	507.7	461.0	441.1	442.1
65°	431.2	429.2	437.1	420.2	385.5	336.8	295.1	284.1	274.2
67.5°	274.2	277.2	274.2	265.3	244.4	209.6	181.8	164.9	159.9
70°	166.9	162.9	163.9	161.9	147.0	130.1	110.3	96.4	92.4
72.5°	100.3	103.3	104.3	107.3	105.3	93.4	79.5	69.5	67.6
75°	71.5	72.5	75.5	78.5	77.5	69.5	58.6	51.7	48.7
77.5°	53.6	53.6	55.6	59.6	56.6	49.7	41.7	35.8	33.8
80°	36.8	37.8	38.7	38.7	35.8	31.8	24.8	20.9	18.9
82.5°	21.9	22.8	21.9	21.9	19.9	15.9	11.9	10.9	9.9
85°	10.9	10.9	10.9	10.9	8.9	7.0	5.0	4.0	4.0
87.5°	5.0	5.0	5.0	4.0	3.0	2.0	2.0	1.0	1.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)