

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: P247979

Luminaire Tested: **LD8B150D010 ER8B1509730 8LBS0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247979
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-92)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD8B150D010 ER8B1509730 8LBS0H
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED
DOWNLIGHT
97 CRI 3000 CCT WITH SEMI-SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12986.0 lumens
Efficiency: N/A
Efficacy: 81.9 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.22
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

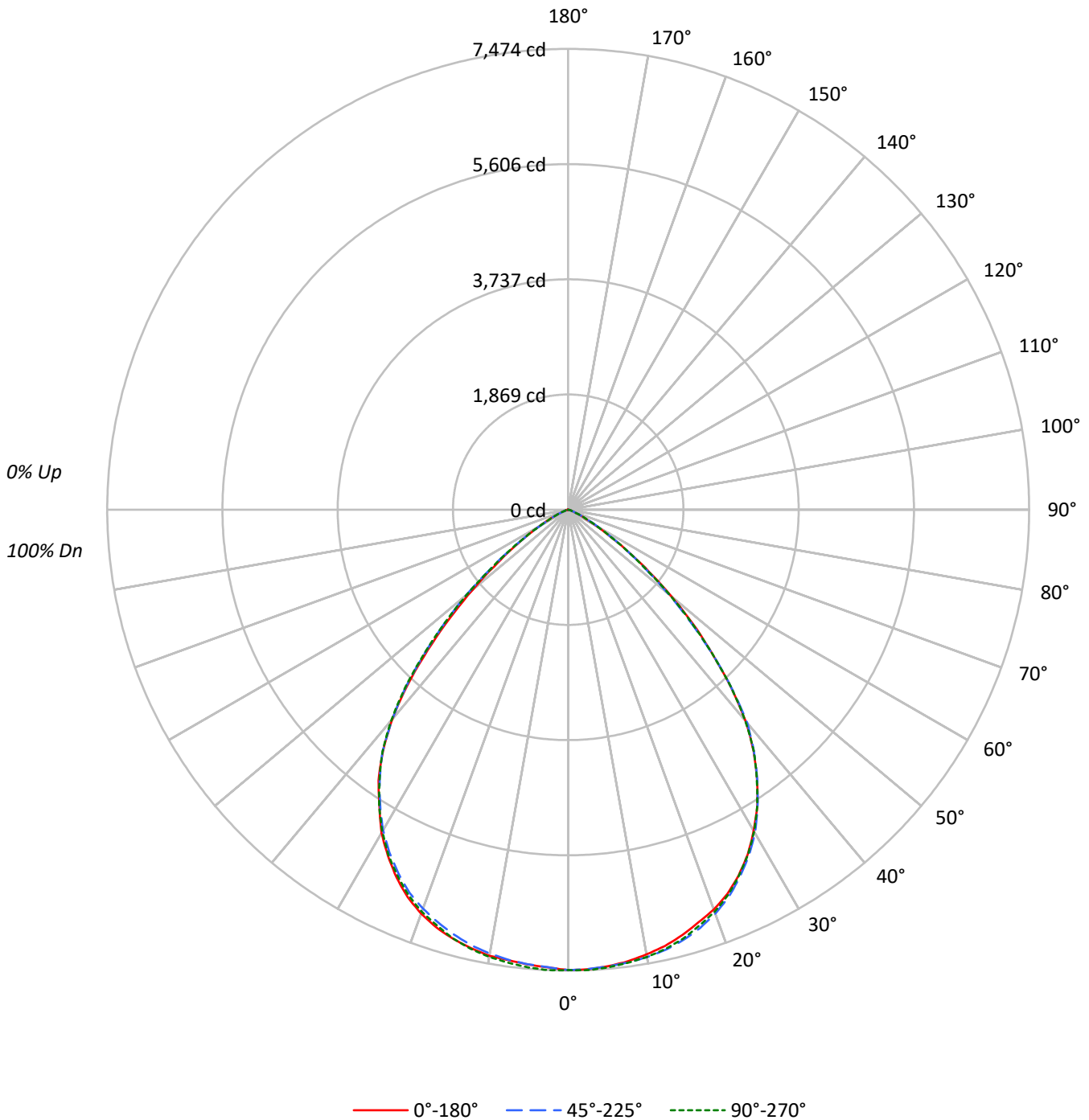
Input Watts (W): 158.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0			
RCR																								
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100	100	100		
1	112	109	106	103	110	107	104	101	103	100	98	99	97	95	95	94	93	91	91	91	91	91		
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	85	83	81	81	81	81	81		
3	98	90	84	79	96	88	83	78	86	81	77	83	79	76	81	77	74	73	73	73	73	73		
4	91	82	75	70	89	81	74	69	78	73	68	76	71	68	74	70	67	65	65	65	65	65		
5	85	75	68	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58	58	58	58	58		
6	79	69	61	56	78	68	61	56	66	60	55	64	59	55	63	58	54	53	53	53	53	53		
7	74	63	56	50	73	62	55	50	61	55	50	60	54	50	58	53	49	48	48	48	48	48		
8	70	58	51	46	68	58	51	46	56	50	46	55	49	45	54	49	45	43	43	43	43	43		
9	65	54	47	42	64	53	46	42	52	46	42	51	46	41	50	45	41	40	40	40	40	40		
10	62	50	43	38	60	50	43	38	49	42	38	48	42	38	47	42	38	36	36	36	36	36		

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	Luminaire represents a point source (luminous area is zero).		
5°	No luminance values can be calculated.		
10°			
15°			
20°			
25°			
30°			
35°			
40°			
45°			
50°			
55°			
60°			
65°			
70°			
75°			
80°			
85°			



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	707.0	5.4
10°-20°	2027.8	15.6
20°-30°	3012.6	23.2
30°-40°	3320.0	25.6
40°-50°	2528.7	19.5
50°-60°	1090.1	8.4
60°-70°	250.4	1.9
70°-80°	41.6	0.3
80°-90°	7.8	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°	5747.4	44.3
0°-40°	9067.4	69.8
0°-60°	12686.1	97.7
0°-90°	12986.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12986.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	7467	7467	7467	7467	7467	
5°	7433	7432	7451	7401	7406	706
15°	7144	7223	7201	7137	7206	2015
25°	6541	6578	6548	6510	6585	3002
35°	5340	5343	5331	5326	5362	3315
45°	3301	3294	3300	3283	3217	2546
55°	1186	1185	1177	1185	1123	1106
65°	219	240	228	226	231	245
75°	45	45	45	46	39	41
85°	7	4	4	13	10	7
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°	7467.0	7467.0	7467.0	7467.0	7467.0	7467.0	7467.0	7467.0	7467.0
2.5°	7458.9	7459.6	7454.5	7465.5	7474.4	7445.6	7428.7	7467.0	7430.2
5°	7433.1	7438.3	7432.4	7446.4	7450.8	7427.2	7400.7	7441.9	7405.8
7.5°	7388.9	7399.2	7408.1	7424.3	7412.5	7383.0	7365.3	7414.0	7369.7
10°	7322.6	7348.4	7367.5	7391.8	7363.1	7331.4	7310.1	7376.4	7346.9
12.5°	7248.2	7277.7	7310.1	7339.5	7296.1	7249.7	7238.6	7309.3	7282.8
15°	7143.6	7170.8	7223.1	7251.1	7201.0	7148.0	7137.0	7226.8	7206.2
17.5°	7020.6	7068.4	7112.6	7134.7	7071.4	7025.7	7019.8	7112.6	7104.5
20°	6899.0	6924.8	6970.5	6999.9	6939.5	6885.0	6882.8	6978.6	6970.5
22.5°	6745.0	6767.9	6798.1	6825.3	6768.6	6722.9	6725.9	6804.7	6803.2
25°	6541.0	6556.5	6577.8	6608.0	6548.4	6515.9	6510.0	6594.0	6585.2
27.5°	6303.0	6313.3	6337.7	6363.4	6311.9	6283.1	6272.8	6356.8	6327.3
30°	6013.5	6037.1	6054.0	6065.1	6026.8	6009.1	6001.7	6068.0	6054.0
32.5°	5706.3	5714.4	5715.2	5742.4	5701.9	5676.9	5676.9	5729.9	5698.2
35°	5340.2	5338.7	5343.1	5372.6	5330.6	5339.5	5326.2	5368.2	5361.6
37.5°	4938.7	4945.3	4946.8	4970.4	4946.8	4952.7	4947.5	4954.2	4932.8
40°	4477.5	4506.3	4515.8	4511.4	4465.8	4450.3	4437.0	4461.3	4434.1
42.5°	3905.1	3918.4	3919.9	3922.8	3910.3	3908.1	3891.9	3902.2	3859.5
45°	3301.1	3307.0	3294.4	3292.2	3300.3	3312.9	3282.6	3259.1	3217.1
47.5°	2749.3	2728.7	2671.9	2692.6	2701.4	2733.1	2700.7	2637.3	2602.7
50°	2168.8	2147.4	2104.0	2113.5	2148.2	2196.0	2158.5	2070.8	2024.4
52.5°	1656.8	1632.5	1583.9	1592.7	1603.0	1639.1	1619.2	1559.6	1514.6
55°	1186.1	1169.1	1185.3	1172.1	1177.2	1211.8	1184.6	1135.2	1123.4
57.5°	801.5	811.1	824.3	826.6	816.2	805.9	802.2	783.1	793.4
60°	531.1	538.5	560.6	567.2	551.8	529.7	534.1	534.1	543.7
62.5°	343.3	349.9	375.7	380.1	358.0	352.1	352.1	349.9	367.6
65°	218.8	232.1	240.2	228.4	227.6	219.5	226.2	226.2	231.3
67.5°	131.1	119.3	127.4	132.6	127.4	120.8	119.3	120.1	127.4
70°	75.9	72.9	78.1	75.1	78.1	67.8	75.9	72.2	74.4
72.5°	48.6	47.9	47.9	50.8	47.9	46.4	49.4	42.7	47.1
75°	44.9	44.9	44.9	39.0	44.9	43.5	45.7	34.6	39.0
77.5°	17.7	20.6	25.0	24.3	24.3	22.8	20.6	17.7	27.3
80°	16.2	14.7	19.9	23.6	14.7	17.7	19.9	12.5	13.3
82.5°	8.1	7.4	9.6	9.6	9.6	5.2	13.3	8.1	6.6
85°	6.6	2.9	4.4	4.4	4.4	5.9	13.3	3.7	9.6
87.5°	1.5	2.2	3.7	3.7	4.4	7.4	13.3	2.9	11.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)