

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: FAIL-SAFE

Report Number: P302632

Luminaire Tested: **FSP-24-64-35-CA08**

Issue Date: 3/3/2020

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Cooper Lighting Solutions or from external interests.

Test Information

Test Method: LM-79-08
Report Number: P302632
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1905-304-14)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: FSP-24-64-35-CA08
Description: 2x4 Fail Safe Flat Panel Clear Acrylic Lens .08"
Light Source: (350) 3500 CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER
Luminaire Equipment:

<u>Sample No.</u>	<u>Condition</u>	<u>Description</u>
AS-5443-1	Good	WHITE TWIN R-EVOLVE FLOOD
AS-5443-2	Good	REFLECTOR
AS-5443-3	Good	DRIVER
AS-5443-4	Good	UPPER MODULE
AS-5443-5	Good	LENS
AS-5443-6	Good	DRIVER 2
AS-5443-7	Good	TRIM RING

Summary

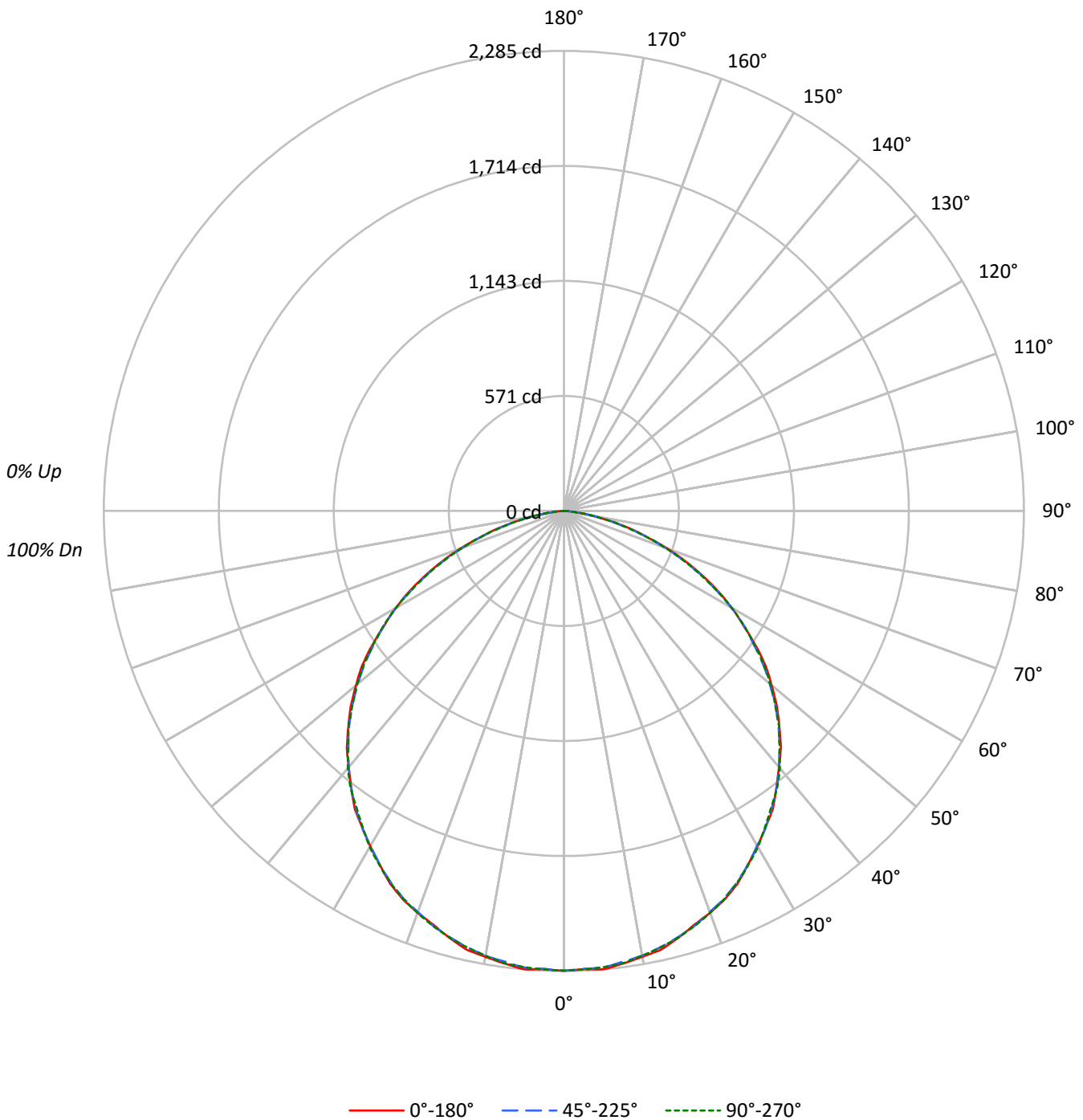
Lumens per Lamp: N/A
Luminaire Lumens: 6260.4 lumens
Efficiency: N/A
Efficacy: 103.8 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.25 / 1.37
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 60.3
Input Voltage (V): NR
Input Current (A_{in}): 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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	105	101	97	107	102	99	95	98	95	92	94	92	90	91	89	87	85
2	100	92	85	79	97	90	84	78	86	81	77	83	79	75	80	76	73	71
3	91	81	73	66	88	79	72	66	76	70	64	73	68	63	71	66	62	60
4	83	71	63	56	81	70	62	56	68	61	55	65	59	54	63	58	54	51
5	77	64	55	48	74	63	54	48	61	53	48	59	52	47	57	51	47	44
6	71	57	49	42	69	57	48	42	55	47	42	53	46	41	51	46	41	39
7	66	52	43	37	64	51	43	37	50	42	37	48	42	37	47	41	36	34
8	61	48	39	33	59	47	39	33	46	38	33	44	38	33	43	37	33	31
9	57	44	35	30	56	43	35	30	42	35	30	41	34	30	40	34	29	28
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3072	3072	3072
5°	3086	3074	3071
10°	3072	3064	3064
15°	3058	3052	3055
20°	3040	3035	3043
25°	3032	3021	3024
30°	2987	2982	2996
35°	2971	2959	2950
40°	2919	2919	2932
45°	2879	2868	2875
50°	2821	2794	2805
55°	2725	2695	2708
60°	2592	2592	2597
65°	2417	2394	2388
70°	2155	2112	2119
75°	1806	1749	1730
80°	1239	1239	1254
85°	653	653	710



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	216.0	3.5
10°-20°	618.5	9.9
20°-30°	936.9	15.0
30°-40°	1126.7	18.0
40°-50°	1163.1	18.6
50°-60°	1033.1	16.5
60°-70°	743.7	11.9
70°-80°	359.8	5.7
80°-90°	62.7	1.0
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°	1771.4	28.3
0°-40°	2898.1	46.3
0°-60°	5094.3	81.4
0°-90°	6260.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6260.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2283	2283	2283	2283	2283	
5°	2285	2280	2276	2268	2274	217
15°	2195	2193	2191	2186	2193	619
25°	2042	2033	2035	2035	2037	938
35°	1809	1803	1802	1803	1796	1127
45°	1513	1511	1508	1508	1511	1168
55°	1162	1160	1149	1154	1154	1037
65°	759	754	752	744	750	751
75°	347	340	336	335	333	365
85°	42	42	42	42	46	62
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2283.2	2283.2	2283.2	2283.2	2283.2
2.5°	2277.7	2277.7	2275.9	2277.7	2279.6
5°	2285.1	2279.6	2275.9	2268.5	2274.1
7.5°	2266.7	2261.2	2257.5	2252.0	2264.9
10°	2248.3	2248.3	2242.8	2233.6	2242.8
12.5°	2231.8	2220.7	2218.9	2217.1	2220.7
15°	2195.0	2193.2	2191.3	2185.8	2193.2
17.5°	2154.6	2160.1	2160.1	2160.1	2161.9
20°	2123.3	2119.6	2119.6	2119.6	2125.1
22.5°	2088.4	2081.0	2082.9	2075.5	2084.7
25°	2042.4	2033.2	2035.1	2035.1	2036.9
27.5°	1979.9	1979.9	1979.9	1981.8	1983.6
30°	1922.9	1926.6	1919.2	1917.4	1928.4
32.5°	1864.1	1864.1	1865.9	1858.6	1860.4
35°	1808.9	1803.4	1801.6	1803.4	1796.1
37.5°	1733.6	1737.2	1735.4	1733.6	1739.1
40°	1661.9	1667.4	1661.9	1660.0	1669.2
42.5°	1595.7	1590.2	1584.7	1581.0	1584.7
45°	1513.0	1511.1	1507.5	1507.5	1511.1
47.5°	1435.8	1432.1	1422.9	1421.1	1422.9
50°	1347.5	1343.8	1334.6	1342.0	1340.2
52.5°	1263.0	1255.6	1246.4	1250.1	1250.1
55°	1161.8	1160.0	1149.0	1154.5	1154.5
57.5°	1057.1	1064.4	1060.7	1058.9	1060.7
60°	963.3	968.8	963.3	957.8	965.1
62.5°	865.9	862.2	854.8	854.8	854.8
65°	759.2	753.7	751.9	744.5	750.1
67.5°	654.5	648.9	645.3	643.4	643.4
70°	547.8	544.2	536.8	535.0	538.6
72.5°	437.5	439.4	435.7	432.0	437.5
75°	347.4	340.1	336.4	334.6	332.7
77.5°	246.3	242.7	240.8	240.8	242.7
80°	159.9	159.9	159.9	159.9	161.8
82.5°	91.9	93.8	91.9	95.6	97.4
85°	42.3	42.3	42.3	42.3	46.0
87.5°	14.7	12.9	12.9	14.7	14.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)