

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: P302499

Luminaire Tested: **FSP-14-30HE-40-CP375**

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: P302499
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1905-304-19)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: FSP-14-30HE-40-CP375
Description: 1x4 Fail Safe Flat Panel Clear Polycarbonate Lens .375"
Light Source: (266) 4000 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

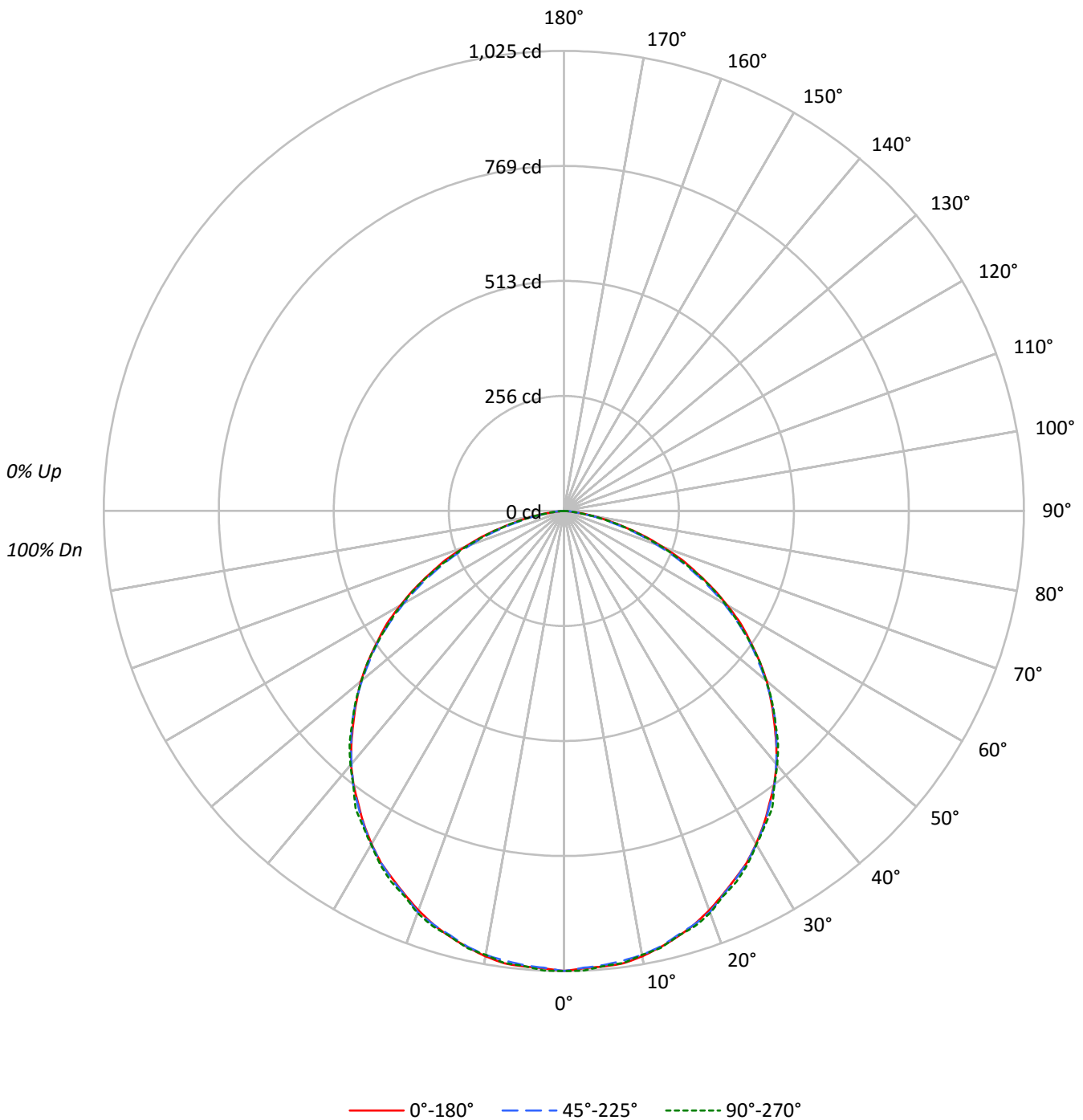
Lumens per Lamp: N/A
Luminaire Lumens: 2741.5 lumens
Efficiency: N/A
Efficacy: 111.9 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.25 / 1.36
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 24.5
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	103	99	96	99	96	93	95	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	87	82	77	83	79	75	80	77	74	72
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	54	52
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45
6	71	58	49	43	69	57	49	43	55	48	42	54	47	42	52	46	42	39
7	66	53	44	38	64	52	44	38	50	43	37	49	42	37	47	41	37	35
8	61	48	40	34	60	47	39	34	46	39	33	45	38	33	44	38	33	31
9	57	44	36	30	56	43	36	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	28	52	40	33	28	39	32	27	38	32	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2758	2758	2758
5°	2752	2743	2749
10°	2753	2744	2744
15°	2735	2726	2732
20°	2711	2723	2729
25°	2683	2689	2705
30°	2661	2664	2668
35°	2621	2628	2658
40°	2590	2586	2597
45°	2521	2536	2536
50°	2472	2455	2463
55°	2380	2361	2365
60°	2260	2216	2244
65°	2080	2008	2053
70°	1842	1737	1818
75°	1484	1398	1473
80°	1051	955	1018
85°	445	411	475



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.9	3.5
10°-20°	277.3	10.1
20°-30°	418.1	15.3
30°-40°	500.7	18.3
40°-50°	512.8	18.7
50°-60°	449.0	16.4
60°-70°	316.1	11.5
70°-80°	148.0	5.4
80°-90°	22.7	0.8
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°	792.3	28.9
0°-40°	1293.0	47.2
0°-60°	2254.7	82.2
0°-90°	2741.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2741.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1025	1025	1025	1025	1025	
5°	1019	1020	1016	1023	1018	97
15°	982	983	979	986	981	277
25°	904	908	906	911	911	417
35°	798	798	800	803	809	500
45°	662	661	666	666	666	512
55°	507	503	503	503	504	454
65°	327	320	315	314	322	325
75°	143	140	134	134	142	155
85°	14	14	13	13	15	24
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1024.8	1024.8	1024.8	1024.8	1024.8
2.5°	1019.7	1024.8	1018.7	1024.8	1024.8
5°	1018.7	1019.7	1015.6	1022.8	1017.7
7.5°	1016.6	1015.6	1010.5	1016.6	1015.6
10°	1007.4	1007.4	1004.3	1008.4	1004.3
12.5°	995.1	996.1	994.0	998.2	997.1
15°	981.7	982.7	978.6	985.8	980.7
17.5°	966.3	966.3	966.3	968.4	970.4
20°	946.8	947.8	950.9	953.0	953.0
22.5°	925.2	925.2	926.3	929.3	928.3
25°	903.7	907.8	905.7	910.9	910.9
27.5°	883.1	884.2	883.1	887.2	887.2
30°	856.4	853.4	857.5	860.5	858.5
32.5°	828.7	825.6	829.7	833.8	832.8
35°	797.9	797.9	800.0	803.0	809.2
37.5°	769.2	767.1	770.2	772.2	770.2
40°	737.3	734.2	736.3	735.3	739.4
42.5°	700.3	700.3	701.4	702.4	706.5
45°	662.4	661.3	666.5	666.5	666.5
47.5°	626.4	627.4	628.5	629.5	629.5
50°	590.5	586.4	586.4	586.4	588.4
52.5°	549.4	545.3	544.3	543.2	549.4
55°	507.3	503.2	503.2	503.2	504.2
57.5°	467.2	459.0	458.0	454.9	460.1
60°	420.0	413.8	411.8	408.7	416.9
62.5°	374.8	368.7	364.6	362.5	371.7
65°	326.6	320.4	315.3	314.2	322.4
67.5°	285.5	274.2	270.1	269.0	275.2
70°	234.1	226.9	220.8	222.8	231.1
72.5°	191.0	182.8	177.7	177.7	185.9
75°	142.7	139.7	134.5	134.5	141.7
77.5°	102.7	99.6	94.5	96.5	100.6
80°	67.8	63.7	61.6	61.6	65.7
82.5°	38.0	34.9	33.9	33.9	35.9
85°	14.4	14.4	13.3	13.3	15.4
87.5°	3.1	3.1	3.1	2.1	3.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)