

Scaled data based on original data using

LM-41-14 Approved Method for Photometric Testing Of Indoor Fluorescent Luminaires

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: HALO

Report Number: P295441

Luminaire Tested: **HLB3S05927EMW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P295441
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1901-077-10)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: HLB3S05927EMW
Description: 3 IN SQUARE HALO BLADE - 2700K
Light Source: -
Ballast/Driver: -

Summary

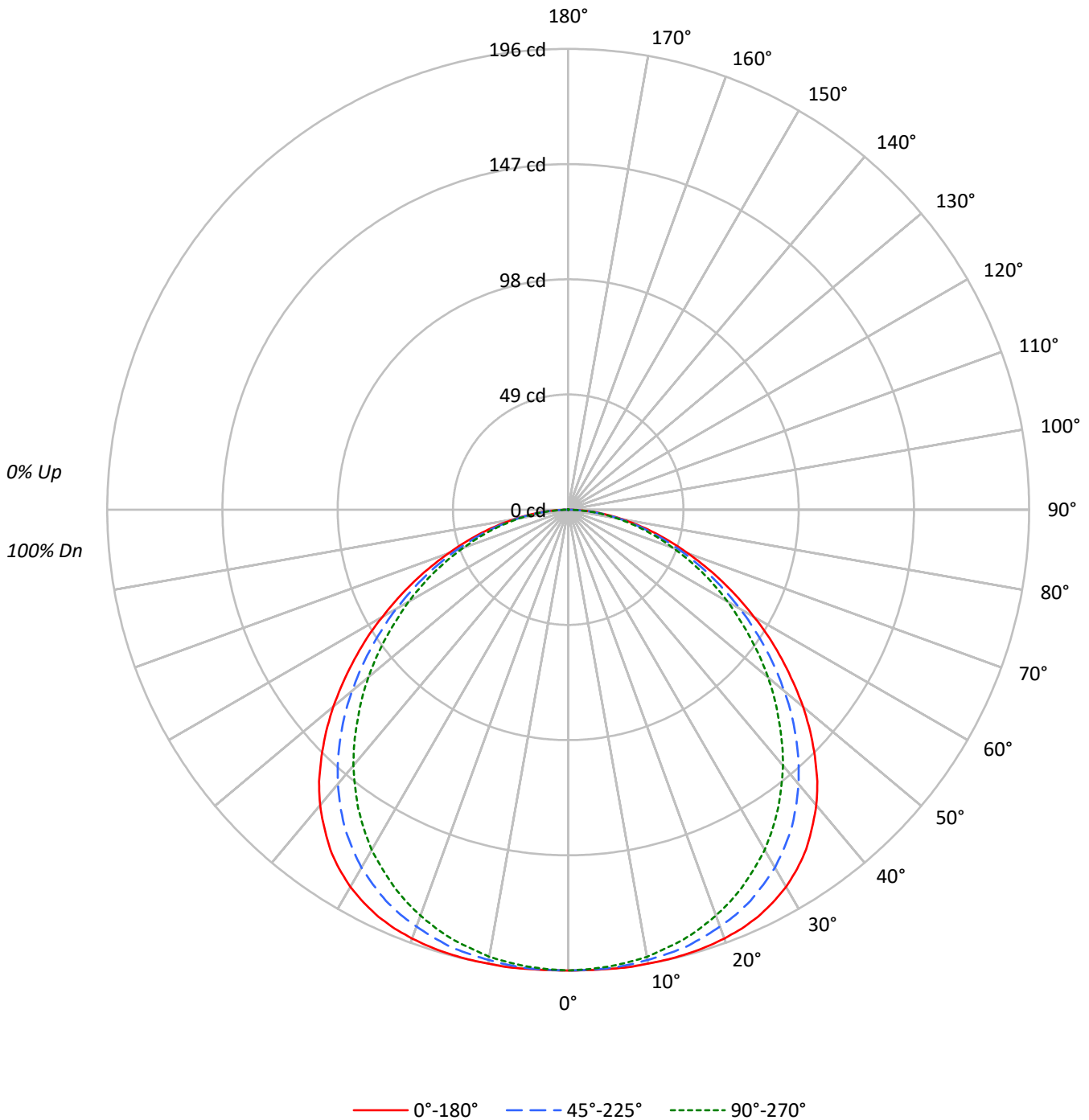
Lumens per Lamp: N/A
Luminaire Lumens: 574.0 lumens
Efficiency: N/A
Efficacy: 63.8 lumens/watt
Spacing Criteria (0/90/45): 1.39 / 1.26 / 1.4
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 9
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



TEST NUMBER: P295441
CATALOG NUMBER: HLB3S05927EMW

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	104	100	96	106	102	98	94	97	94	91	94	91	89	90	88	86	84
2	99	91	84	78	96	89	83	77	85	80	75	82	78	74	79	75	72	70
3	90	80	72	65	88	78	71	64	75	69	63	72	67	62	70	65	61	59
4	83	71	62	55	80	69	61	55	67	60	54	64	58	53	62	57	53	50
5	76	63	54	47	74	62	54	47	60	52	47	58	51	46	56	50	46	44
6	70	57	48	41	68	56	47	41	54	46	41	52	46	40	51	45	40	38
7	65	51	43	37	63	51	42	36	49	42	36	48	41	36	46	40	36	34
8	61	47	38	33	59	46	38	32	45	38	32	44	37	32	43	36	32	30
9	57	43	35	29	55	42	35	29	41	34	29	40	34	29	39	33	29	27
10	53	40	32	27	52	39	32	26	38	31	26	37	31	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	42979	42979	42979
5°	43165	43099	42945
10°	43642	43308	42996
15°	44404	43723	42974
20°	45294	44034	42867
25°	46212	44398	42656
30°	46893	44513	42310
35°	47221	44303	41626
40°	46974	43596	40676
45°	45989	42454	39291
50°	44451	40903	37832
55°	42398	39033	36051
60°	39997	37058	34383
65°	37514	34816	32533
70°	34685	32505	30326
75°	32280	30416	28467
80°	29423	27908	26519
85°	26921	24908	23902



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	18.6	3.2
10°-20°	54.3	9.5
20°-30°	84.5	14.7
30°-40°	103.3	18.0
40°-50°	105.6	18.4
50°-60°	91.4	15.9
60°-70°	66.7	11.6
70°-80°	38.0	6.6
80°-90°	11.3	2.0
90°-100°	0.0	0.0
100°-110°	0.1	0.0
110°-120°	0.1	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°	157.5	27.4
0°-40°	260.8	45.4
0°-60°	457.9	79.8
0°-90°	573.8	100.0
90°-120°	0.2	0.0
90°-150°	0.2	0.0
90°-180°	0.0	0.0
0°-180°	574.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	196	196	196	196	196	
5°	196	196	196	195	195	19
15°	196	194	193	190	189	55
25°	191	188	184	178	176	88
35°	176	173	166	158	156	110
45°	148	145	137	129	127	114
55°	111	108	102	96	94	99
65°	72	71	67	64	63	72
75°	38	37	36	34	34	40
85°	11	10	10	10	10	11
90°	0	0	0	0	0	1
95°	0	0	0	0	0	0
105°	0	0	0	0	0	0
115°	0	0	0	0	0	0
125°	0	0	0	0	0	0
135°	0	0	0	0	0	0
145°	0	0	0	0	0	0
155°	0	0	0	0	0	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	196.0	196.0	196.0	196.0	196.0
2.5°	196.0	195.9	195.9	195.6	195.6
5°	196.1	195.9	195.8	195.2	195.1
7.5°	196.3	195.8	195.3	194.5	194.2
10°	196.0	195.5	194.5	193.3	193.1
12.5°	195.9	195.0	193.6	191.6	191.1
15°	195.6	194.5	192.6	189.9	189.3
17.5°	195.0	193.5	190.7	187.3	186.7
20°	194.1	192.3	188.7	184.8	183.7
22.5°	192.8	190.6	186.4	181.7	180.3
25°	191.0	188.5	183.5	177.8	176.3
27.5°	188.4	185.7	179.7	173.7	171.7
30°	185.2	182.1	175.8	168.8	167.1
32.5°	181.2	178.0	170.8	163.5	161.4
35°	176.4	173.0	165.5	157.7	155.5
37.5°	170.4	167.0	159.1	151.1	148.8
40°	164.1	160.3	152.3	144.2	142.1
42.5°	156.8	152.9	144.9	136.9	134.6
45°	148.3	144.6	136.9	129.3	126.7
47.5°	139.6	136.1	128.8	121.4	119.0
50°	130.3	126.9	119.9	113.1	110.9
52.5°	120.6	117.6	111.0	104.5	102.7
55°	110.9	107.8	102.1	96.4	94.3
57.5°	101.4	98.5	93.2	87.9	86.0
60°	91.2	88.9	84.5	79.9	78.4
62.5°	81.7	79.8	75.6	71.6	70.4
65°	72.3	70.7	67.1	63.6	62.7
67.5°	63.0	61.9	58.8	55.7	55.0
70°	54.1	53.3	50.7	48.4	47.3
72.5°	45.8	45.0	43.0	40.8	40.5
75°	38.1	37.3	35.9	33.9	33.6
77.5°	30.4	30.0	28.7	27.5	27.1
80°	23.3	23.0	22.1	21.3	21.0
82.5°	16.7	16.4	15.9	15.3	15.0
85°	10.7	10.4	9.9	9.5	9.5
87.5°	4.8	4.7	4.5	4.3	4.4
90°	0.0	0.0	0.0	0.0	0.0
92.5°	0.1	0.0	0.1	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.1
100°	0.0	0.0	0.1	0.1	0.1
102.5°	0.0	0.0	0.1	0.1	0.1
105°	0.0	0.1	0.1	0.1	0.1
107.5°	0.0	0.0	0.0	0.1	0.1
110°	0.0	0.1	0.1	0.1	0.1



TEST NUMBER: P295441

CATALOG NUMBER: HLB3S05927EMW

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	0.0	0.1	0.1	0.1
115°	0.0	0.0	0.0	0.1	0.1
117.5°	0.0	0.1	0.1	0.1	0.1
120°	0.0	0.0	0.1	0.1	0.1
122.5°	0.0	0.0	0.1	0.0	0.1
125°	0.0	0.0	0.1	0.0	0.1
127.5°	0.0	0.0	0.1	0.0	0.1
130°	0.0	0.0	0.1	0.0	0.1
132.5°	0.0	0.0	0.1	0.0	0.1
135°	0.0	0.0	0.0	0.0	0.1
137.5°	0.0	0.0	0.0	0.0	0.1
140°	0.0	0.0	0.0	0.1	0.1
142.5°	0.0	0.0	0.0	0.0	0.1
145°	0.0	0.0	0.0	0.1	0.1
147.5°	0.0	0.0	0.0	0.1	0.1
150°	0.0	0.0	0.0	0.1	0.1
152.5°	0.0	0.0	0.0	0.1	0.1
155°	0.0	0.0	0.0	0.1	0.1
157.5°	0.0	0.0	0.0	0.1	0.1
160°	0.0	0.0	0.0	0.1	0.1
162.5°	0.0	0.0	0.0	0.1	0.1
165°	0.0	0.0	0.0	0.1	0.1
167.5°	0.0	0.0	0.0	0.1	0.0
170°	0.0	0.0	0.0	0.0	0.1
172.5°	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.1	0.1
180°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)