

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: HALO COMMERCIAL

Report Number: P31438

Luminaire Tested: **PD8H242E-82HWWC_26TTT**

Issue Date: 03/03/2020



Test Information

Test Method: LM-79-08
Report Number: P31438
Test Lab: INNOVATION CENTER-P3
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: PD8H242E-82HWWC_26TTT
Description: HALO 8-INCH APERTURE OPEN WALL WASH DOWNLIGHT, HORIZONTAL LAMP, SPECULAR CLEAR TRIM WITH SPECULAR KICKER.
Light Source: (2) SYLVANIA G24Q-3 SINGLE END FOUR PIN BASE DTT CFL LAMP
4100K
CF26DT/E/IN/835 26 WATTS
Ballast/Driver: (1) SYLVANIA ELECTRONIC BALLAST
SYLVANIA QTP2x26CF/UNV DM

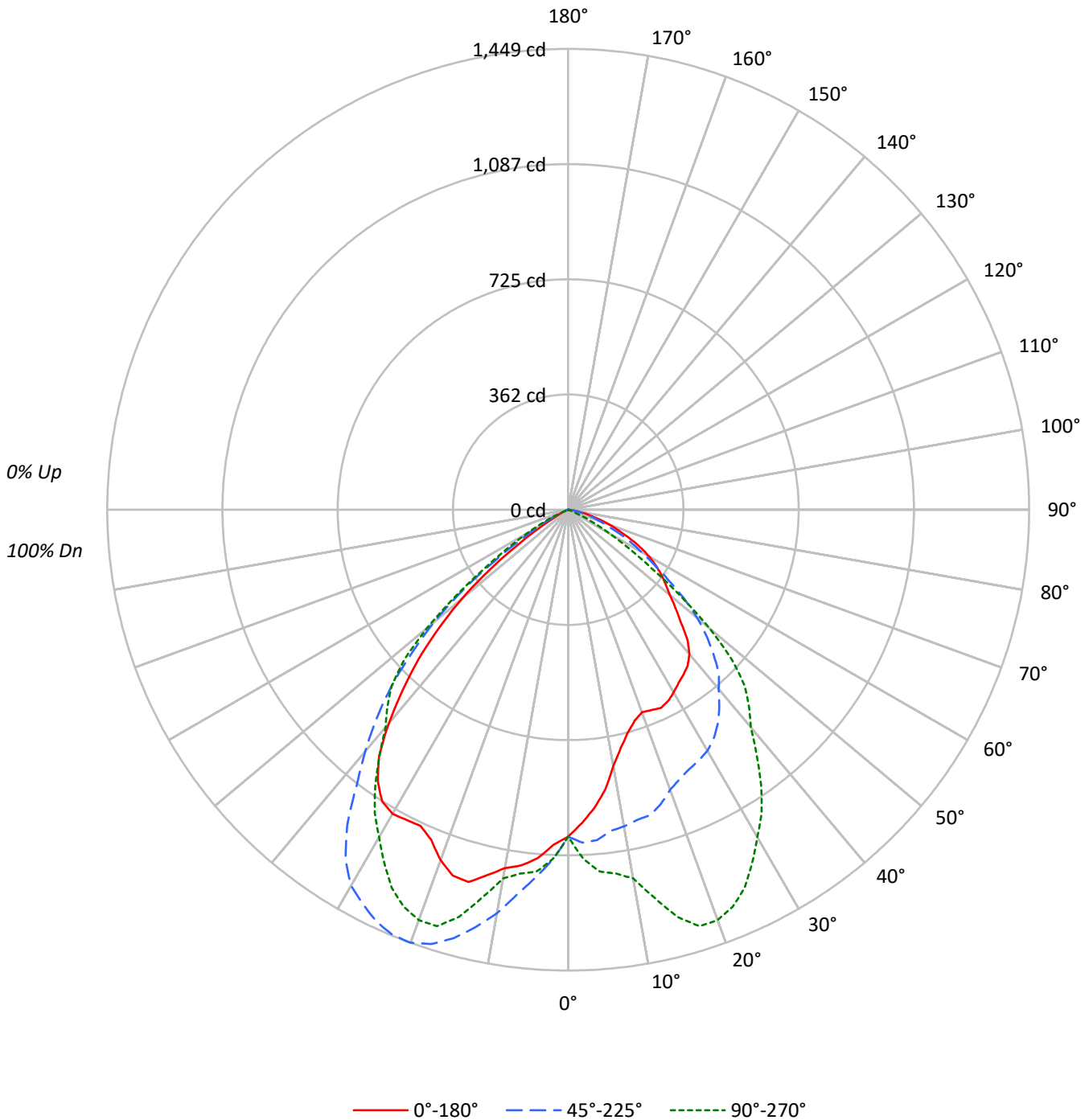
Summary

Lumens per Lamp: 1800 (2 lamps)
Luminaire Lumens: 2533.6 lumens
Efficiency: 70.4%
Efficacy: 47.6 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 1.49 / 1.41
Luminous Opening: Vertical Cylinder (Dia: 0.71' x H: 0.1')
CIE Type: Direct

Input Watts (W): 53.2
Input Voltage (V): 120.00
Input Current (Ain): 0.4433
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										
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	84	84	84	84	82	82	82	82	78	78	78	75	75	75	72	72	72	70					70			
1	78	76	74	72	77	74	72	70	71	70	68	69	67	66	66	65	64	63					63			
2	73	68	65	61	71	67	64	61	65	62	59	62	60	58	60	58	57	55					55			
3	68	62	57	53	66	60	56	53	58	55	52	57	54	51	55	52	50	49					49			
4	63	56	50	46	61	55	50	46	53	49	45	51	48	45	50	47	44	43					43			
5	58	50	45	41	57	50	44	41	48	44	40	47	43	40	46	42	39	38					38			
6	54	46	40	36	53	45	40	36	44	39	36	43	39	36	42	38	35	34					34			
7	50	42	36	33	49	41	36	32	40	36	32	39	35	32	38	35	32	31					31			
8	47	38	33	29	46	38	33	29	37	32	29	36	32	29	35	32	29	28					28			
9	44	35	30	27	43	35	30	26	34	30	26	33	29	26	33	29	26	25					25			
10	41	33	28	24	40	32	27	24	32	27	24	31	27	24	30	27	24	23					23			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	28080	28080	28080
5°	25402	30828	29695
10°	21992	31643	30756
15°	19560	35748	32699
20°	18498	37460	32003
25°	19132	36484	30506
30°	18945	33976	31547
35°	18719	31306	30892
40°	18374	27669	27173
45°	16405	25704	21775
50°	14594	20264	15329
55°	13566	12013	7427
60°	12206	6291	2250
65°	9937	2333	980
70°	7485	428	214
75°	4737	189	126
80°	2181	78	0
85°	308	0	0



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	45°	90°	135°	180°	Flux
0°-10°	104.5	4.1	2.9	0°	1028	1028	1028	1028	1028	
10°-20°	330.5	13.0	9.2	5°	941	1043	1142	1159	1100	86
20°-30°	527.1	20.8	14.6	15°	725	994	1325	1395	1212	206
30°-40°	614.1	24.2	17.1	25°	688	900	1312	1428	1097	315
40°-50°	535.6	21.1	14.9	35°	632	820	1057	1211	1043	395
50°-60°	293.5	11.6	8.2	45°	501	647	785	785	665	389
60°-70°	97.6	3.9	2.7	55°	358	382	317	285	196	319
70°-80°	27.3	1.1	0.8	65°	213	178	50	34	21	212
80°-90°	3.4	0.1	0.1	75°	75	57	3	2	2	83
90°-100°	0.0	0.0	0.0	85°	3	5	0	0	0	8
100°-110°	0.0	0.0	0.0	90°	0	0	0	0	0	
110°-120°	0.0	0.0	0.0							
120°-130°	0.0	0.0	0.0							
130°-140°	0.0	0.0	0.0							
140°-150°	0.0	0.0	0.0							
150°-160°	0.0	0.0	0.0							
160°-170°	0.0	0.0	0.0							
170°-180°	0.0	0.0	0.0							
0°-30°	962.1	38.0	26.7							
0°-40°	1576.2	62.2	43.8							
0°-60°	2405.3	94.9	66.8							
0°-90°	2533.6	100.0	70.4							
90°-120°	0.0	0.0	0.0							
90°-150°	0.0	0.0	0.0							
90°-180°	0.0	0.0	0.0							
0°-180°	2533.6	100.0	70.4							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1028	1028	1028	1028	1028	1028	1028	1028	1028
2.5°	986	1010	1048	1079	1099	1109	1100	1077	1054
5°	941	979	1043	1100	1142	1165	1159	1127	1100
7.5°	888	929	1019	1099	1154	1200	1218	1159	1128
10°	818	881	1011	1116	1177	1241	1288	1225	1144
12.5°	766	846	999	1158	1249	1305	1344	1294	1177
15°	725	818	994	1185	1325	1366	1395	1334	1212
17.5°	695	794	970	1188	1373	1417	1432	1350	1206
20°	678	780	937	1176	1373	1447	1449	1337	1173
22.5°	682	781	916	1155	1351	1448	1446	1307	1124
25°	688	785	900	1134	1312	1419	1428	1290	1097
27.5°	679	771	889	1110	1252	1374	1398	1286	1100
30°	663	750	875	1076	1189	1332	1365	1272	1104
32.5°	646	724	852	1020	1131	1263	1303	1235	1088
35°	632	697	820	967	1057	1181	1211	1158	1043
37.5°	617	665	780	902	974	1081	1092	1064	976
40°	593	633	736	845	893	980	992	965	877
42.5°	555	592	701	805	841	891	893	843	770
45°	501	535	647	747	785	811	785	721	665
47.5°	457	487	591	671	699	728	667	604	550
50°	417	441	530	572	579	601	552	477	438
52.5°	386	405	459	468	443	453	424	354	314
55°	358	365	382	366	317	309	285	224	196
57.5°	327	324	318	282	225	210	185	139	109
60°	293	285	266	209	151	140	108	79	54
62.5°	255	249	222	153	96	89	65	43	35
65°	213	207	178	98	50	40	34	23	21
67.5°	172	162	134	56	13	6	7	7	7
70°	140	132	107	39	8	4	4	4	4
72.5°	106	105	82	26	5	3	3	2	2
75°	75	76	57	16	3	2	2	2	2
77.5°	50	51	37	10	2	1	1	1	1
80°	28	33	27	8	1	0	0	0	0
82.5°	13	17	19	4	0	0	0	0	0
85°	3	4	5	1	0	0	0	0	0
87.5°	0	0	0	0	0	0	0	0	0
90°	0	0	0	0	0	0	0	0	0

(END OF REPORT)