

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: NEO-RAY

Report Number: ITL79715

Luminaire Tested: **282-R-3L35-ESTG-UDD-SI-95HT**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: ITL79715
Test Lab: INDEPENDENT TESTING LABORATORIES, INC.
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: 282-R-3L35-ESTG-UDD-SI-95HT
Description: FABRICATED METAL HOUSING WITH WHITE PAINTED GENERAL INTERIOR FINISH, 2 FORMED WHITE PAINTED METAL OUTBOARD REFLECTORS/DRIVER COVERS, FORMED WHITE PAINTED METAL CIRCUIT BOARD MOUNT, 2 WHITE CIRCUIT BOARDS EACH WITH 49 LEDS, 3-PIECE TRANSLUCENT WHITE FROSTED PLASTIC DIFFUSER IN FABRICATED WHITE PAINTED METAL FRAME. DIFFUSER FROSTED SIDE UP.
Light Source: NINETY-EIGHT WHITE MULTI-CHIP LIGHT EMITTING DIODES (LEDs), VERTICAL BASE-UP POSITION.
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3666.0 lumens
Efficiency: N/A
Efficacy: 76.1 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.31 / 1.39
Luminous Opening: Rectangular (W 1.8' x L: 1.86' x H: 0')
CIE Type: Direct

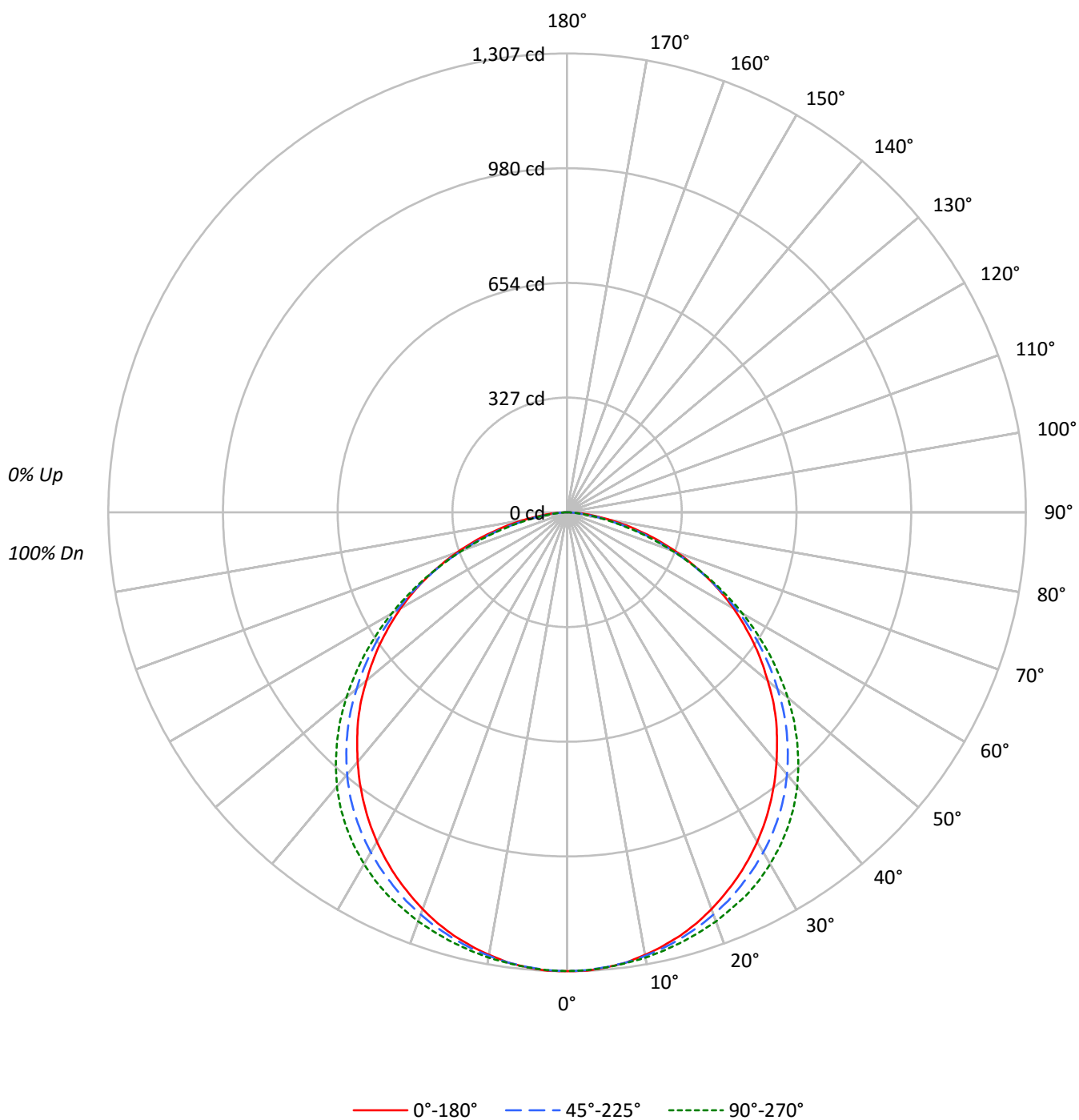
Input Watts (W): 48.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	109	105	100	97	106	102	98	95	98	95	92	94	92	89	91	89	87
2	99	91	85	79	97	89	83	78	86	81	76	83	78	74	80	76	73
3	91	80	72	66	88	79	71	65	76	69	64	73	67	63	70	66	62
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	58	53
5	76	64	55	48	74	62	54	48	60	53	47	58	52	47	56	51	46
6	70	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41
7	65	52	43	37	64	51	43	37	49	42	37	48	41	36	47	41	36
8	61	47	39	33	59	47	38	33	45	38	33	44	37	32	43	37	32
9	57	43	35	30	55	43	35	30	42	34	29	41	34	29	40	33	29
10	53	40	32	27	52	39	32	27	38	31	27	38	31	27	37	31	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4187	4187	4187
5°	4184	4180	4184
10°	4164	4173	4190
15°	4139	4165	4202
20°	4101	4156	4227
25°	4058	4146	4259
30°	4010	4135	4280
35°	3950	4118	4286
40°	3881	4077	4265
45°	3819	4009	4200
50°	3718	3902	4092
55°	3625	3770	3926
60°	3511	3594	3703
65°	3343	3343	3396
70°	3119	2988	2969
75°	2785	2525	2426
80°	2306	1882	1789
85°	1691	1213	1139

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	123.6	3.4
10°-20°	354.8	9.7
20°-30°	541.4	14.8
30°-40°	658.1	18.0
40°-50°	681.5	18.6
50°-60°	603.1	16.5
60°-70°	437.4	11.9
70°-80°	220.6	6.0
80°-90°	45.4	1.2
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°	1019.8	27.8
0°-40°	1678.0	45.8
0°-60°	2962.5	80.8
0°-90°	3666.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3666.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1307	1307	1307	1307	1307	
5°	1301	1300	1300	1301	1301	124
15°	1248	1250	1256	1264	1267	352
25°	1148	1154	1173	1194	1205	529
35°	1010	1022	1053	1083	1096	632
45°	843	855	885	914	927	649
55°	649	658	675	693	703	580
65°	441	440	441	446	448	437
75°	225	213	204	199	196	239
85°	46	37	33	33	31	56
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1307	1307	1307	1307	1307
2.5°	1307	1306	1305	1304	1305
5°	1301	1300	1300	1301	1301
7.5°	1293	1292	1293	1294	1295
10°	1280	1281	1283	1286	1288
12.5°	1265	1267	1271	1276	1278
15°	1248	1250	1256	1264	1267
17.5°	1227	1230	1239	1250	1254
20°	1203	1207	1219	1234	1240
22.5°	1176	1182	1198	1215	1222
25°	1148	1154	1173	1194	1205
27.5°	1117	1124	1147	1170	1183
30°	1084	1093	1118	1146	1157
32.5°	1048	1058	1087	1116	1128
35°	1010	1022	1053	1083	1096
37.5°	970	983	1016	1046	1060
40°	928	942	975	1006	1020
42.5°	885	900	931	961	975
45°	843	855	885	914	927
47.5°	796	808	836	863	876
50°	746	760	783	809	821
52.5°	698	709	730	751	762
55°	649	658	675	693	703
57.5°	598	605	619	633	641
60°	548	551	561	572	578
62.5°	496	495	501	510	512
65°	441	440	441	446	448
67.5°	387	383	381	379	381
70°	333	325	319	317	317
72.5°	279	269	260	257	256
75°	225	213	204	199	196
77.5°	173	163	149	144	142
80°	125	114	102	99	97
82.5°	80	72	62	59	59
85°	46	37	33	33	31
87.5°	18	14	12	11	10
90°	0	0	0	0	0

(END OF REPORT)