

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: ITL79716

Luminaire Tested: **282-R-2L35-ESTG-UDD-SI-95HT**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: ITL79716
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-2L35-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
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: 3005.5 lumens
Efficiency: N/A
Efficacy: 79.1 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

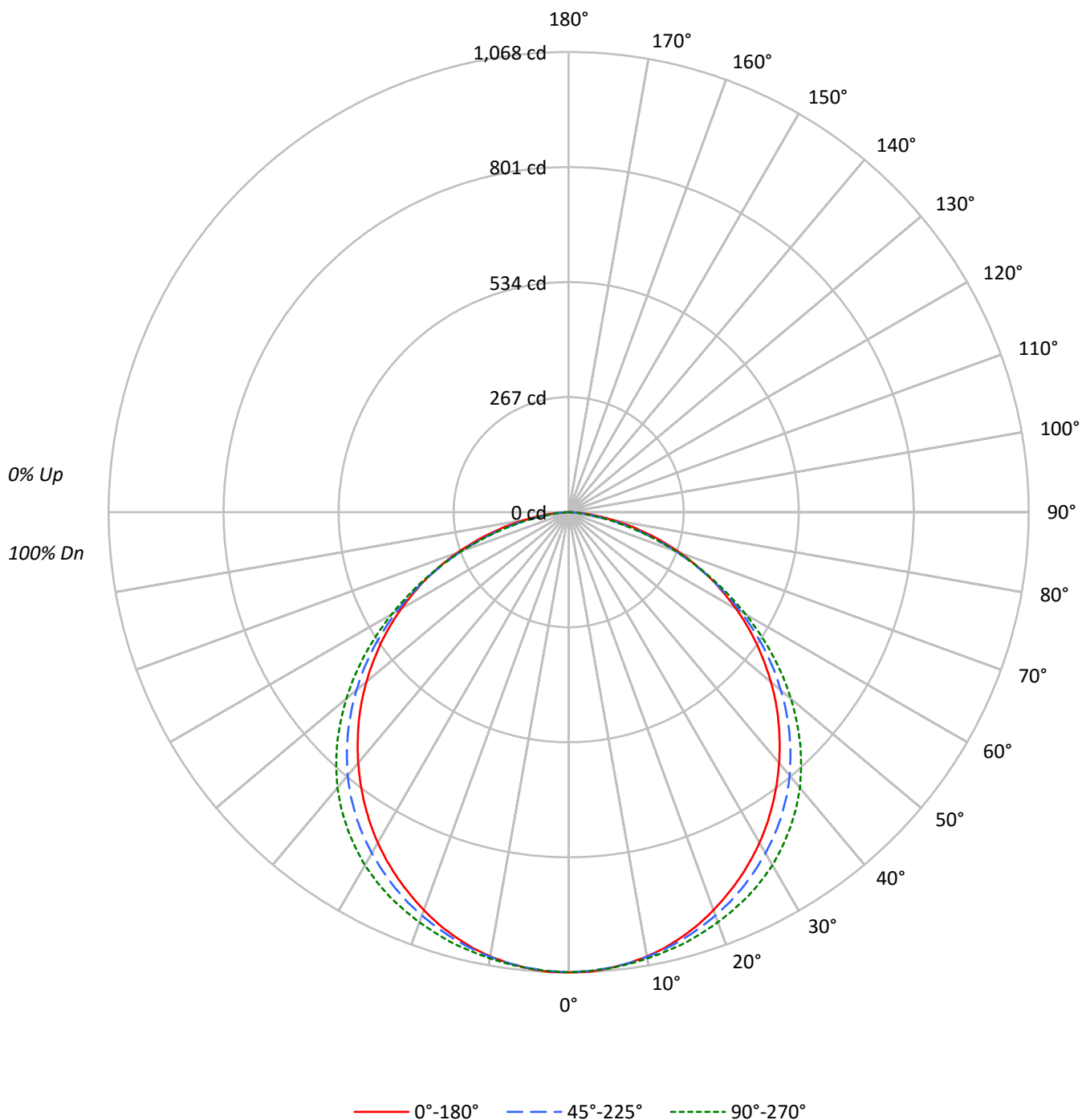
Input Watts (W): 38
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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		0
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		100
1	109	104	100	97	106	102	98	95	98	95	92		94	92	89		84
2	99	91	85	79	97	89	83	78	86	81	76		83	78	74		71
3	91	80	72	66	88	79	71	65	76	69	64		73	67	63		60
4	83	71	62	56	81	70	62	55	67	60	55		65	59	54		51
5	76	63	55	48	74	62	54	48	60	53	47		58	52	47		44
6	70	57	48	42	68	56	48	42	54	47	41		53	46	41		38
7	65	52	43	37	64	51	43	37	49	42	36		48	41	36		34
8	61	47	39	33	59	47	38	33	45	38	33		44	37	32		30
9	57	43	35	30	55	43	35	29	42	34	29		40	34	29		27
10	53	40	32	27	52	39	32	27	38	31	27		37	31	26		25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3421	3421	3421
5°	3418	3415	3418
10°	3406	3409	3422
15°	3383	3403	3436
20°	3351	3395	3453
25°	3315	3390	3478
30°	3277	3381	3499
35°	3230	3367	3504
40°	3178	3337	3492
45°	3121	3284	3443
50°	3055	3204	3359
55°	2977	3100	3228
60°	2877	2954	3043
65°	2752	2752	2797
70°	2566	2473	2473
75°	2302	2092	2042
80°	1900	1550	1476
85°	1433	1029	956

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.0	3.4
10°-20°	289.9	9.6
20°-30°	442.6	14.7
30°-40°	538.5	17.9
40°-50°	558.2	18.6
50°-60°	495.2	16.5
60°-70°	359.3	12.0
70°-80°	182.9	6.1
80°-90°	37.8	1.3
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°	833.6	27.7
0°-40°	1372.0	45.7
0°-60°	2425.5	80.7
0°-90°	3005.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3005.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1068	1068	1068	1068	1068	
5°	1063	1062	1062	1062	1063	101
15°	1020	1021	1026	1033	1036	288
25°	938	944	959	977	984	432
35°	826	836	861	886	896	517
45°	689	700	725	749	760	531
55°	533	540	555	569	578	476
65°	363	359	363	365	369	359
75°	186	178	169	165	165	197
85°	39	31	28	27	26	47
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1068	1068	1068	1068	1068
2.5°	1068	1067	1066	1066	1066
5°	1063	1062	1062	1062	1063
7.5°	1056	1056	1056	1058	1058
10°	1047	1047	1048	1051	1052
12.5°	1035	1035	1038	1042	1044
15°	1020	1021	1026	1033	1036
17.5°	1003	1005	1012	1021	1025
20°	983	987	996	1008	1013
22.5°	961	967	979	993	999
25°	938	944	959	977	984
27.5°	913	920	937	958	966
30°	886	894	914	937	946
32.5°	857	866	889	913	922
35°	826	836	861	886	896
37.5°	794	805	831	857	867
40°	760	772	798	823	835
42.5°	725	736	762	787	799
45°	689	700	725	749	760
47.5°	652	662	685	707	718
50°	613	623	643	664	674
52.5°	573	582	600	618	627
55°	533	540	555	569	578
57.5°	491	496	508	519	527
60°	449	452	461	469	475
62.5°	406	406	412	417	422
65°	363	359	363	365	369
67.5°	319	313	313	313	316
70°	274	268	264	262	264
72.5°	230	222	216	213	213
75°	186	178	169	165	165
77.5°	144	135	124	120	118
80°	103	94	84	81	80
82.5°	68	59	52	49	49
85°	39	31	28	27	26
87.5°	16	12	10	9	9
90°	0	0	0	0	0

(END OF REPORT)