

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: P33920

Luminaire Tested: **S125RDW-135-0048-1D-UDD-1-W**

Test Date: 03/04/15

Test Information

Test Method: LM-79-08
Report Number: P33920
Test Lab: INNOVATION CENTER-P3
Test Date: 03/04/15
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S125RDW-135-0048-1D-UDD-1-W
Description: NEORAY DIRECT- INDIRECT 5" FIXTURE WITH REGRESSED DIFFUSE LENS.LL1
Light Source: [117] NICHIA 3500K LED
Nichia 757D
Ballast/Driver: [1] OSRAM SYLVANIA ELECTRONIC DRIVER
OT50WPRG1400C

Summary

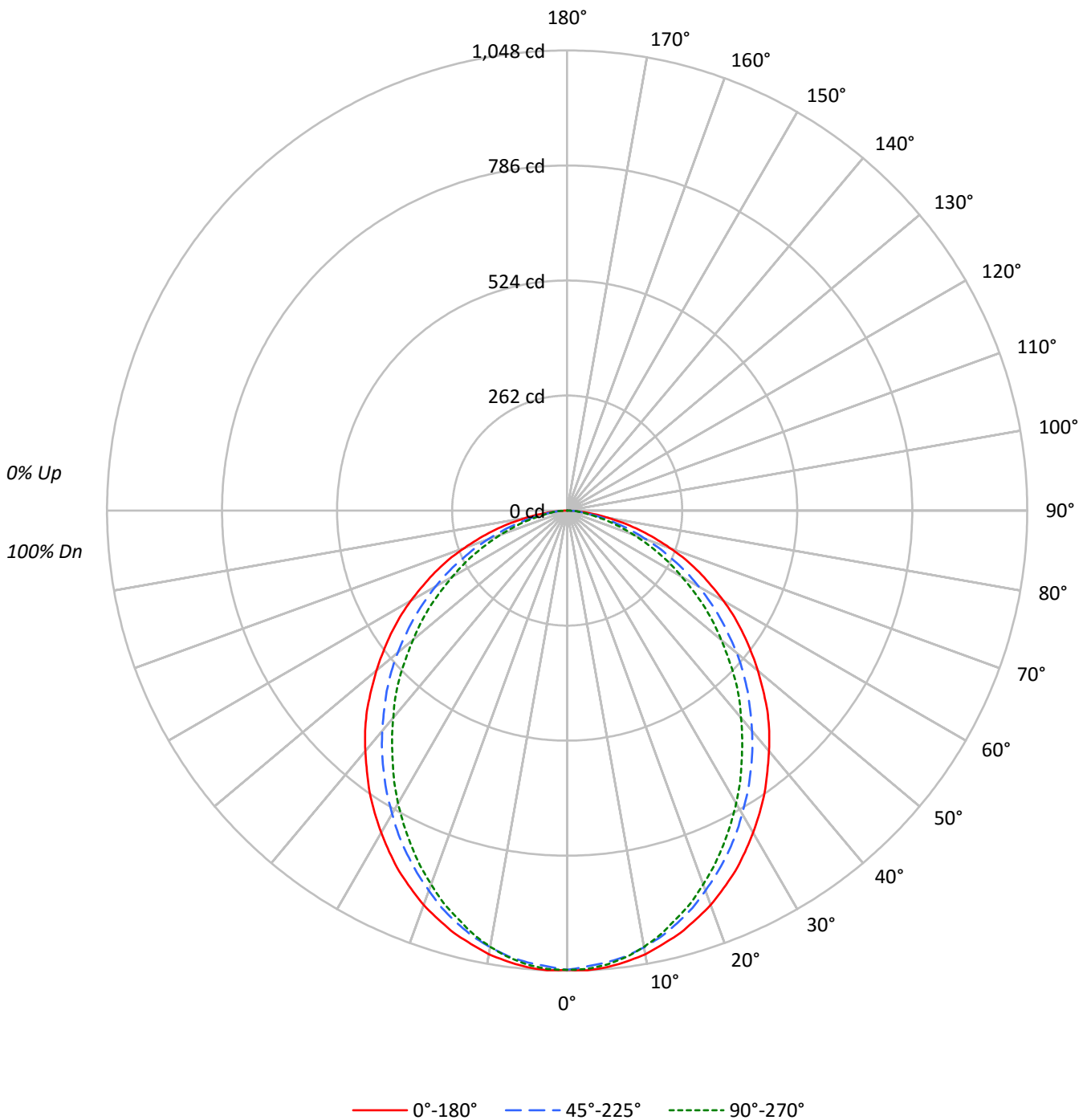
Lumens per Lamp: N/A
Luminaire Lumens: 2510.0 lumens
Efficiency: N/A
Efficacy: 89.0 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.11 / 1.26
Luminous Opening: Rectangular (W 0.42' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 28.2
Input Voltage (V): 120.01
Input Current (A_{in}): 0.2365
Voltage Rise (V): NR
Power Factor: 0.9971
Total Harmonic Distortion (THDi): 7.61
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: HR
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	98	95	93		95	92	90		91	89	87	85
2	100	92	86	80	97	90	84	79	87	82	77		84	79	76		81	77	74	72
3	92	81	74	67	89	80	73	67	77	71	66		74	69	64		72	67	63	61
4	84	73	64	58	82	71	63	57	69	62	56		66	60	56		64	59	55	53
5	78	65	56	50	75	64	56	50	62	55	49		60	54	49		58	53	48	46
6	72	59	50	44	70	58	50	44	56	49	43		54	48	43		53	47	43	41
7	67	53	45	39	65	53	45	39	51	44	39		50	43	38		48	42	38	36
8	62	49	41	35	61	48	40	35	47	40	35		46	39	34		45	39	34	32
9	58	45	37	32	57	44	37	31	43	36	31		42	36	31		41	35	31	29
10	55	42	34	29	53	41	34	29	40	33	29		39	33	28		38	33	28	27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6755	6755	6755
5°	6768	6697	6729
10°	6728	6624	6617
15°	6659	6499	6432
20°	6570	6330	6227
25°	6456	6150	5993
30°	6316	5944	5742
35°	6181	5740	5464
40°	6028	5522	5193
45°	5891	5307	4932
50°	5697	5064	4602
55°	5517	4785	4290
60°	5309	4469	3901
65°	5074	4080	3515
70°	4702	3626	3040
75°	4242	3044	2545
80°	3533	2343	1971
85°	2519	1927	1853



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.4	3.9
10°-20°	275.2	11.0
20°-30°	400.2	15.9
30°-40°	459.0	18.3
40°-50°	451.6	18.0
50°-60°	383.8	15.3
60°-70°	271.3	10.8
70°-80°	137.6	5.5
80°-90°	32.8	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°	773.8	30.8
0°-40°	1232.8	49.1
0°-60°	2068.2	82.4
0°-90°	2510.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2510.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1046	1046	1046	1046	1046	
5°	1044	1041	1033	1039	1038	99
15°	996	990	972	968	962	281
25°	906	891	863	850	841	417
35°	784	764	728	706	693	490
45°	645	620	581	549	540	496
55°	490	463	425	393	381	438
65°	332	305	267	241	230	328
75°	170	150	122	106	102	180
85°	34	29	26	25	25	42
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1046	1046	1046	1046	1046
2.5°	1048	1046	1039	1046	1045
5°	1044	1041	1033	1039	1038
7.5°	1036	1033	1024	1028	1026
10°	1026	1022	1010	1012	1009
12.5°	1011	1007	993	992	988
15°	996	990	972	968	962
17.5°	976	969	949	943	937
20°	956	946	921	915	906
22.5°	931	919	893	884	875
25°	906	891	863	850	841
27.5°	877	863	832	815	806
30°	847	830	797	780	770
32.5°	816	797	764	742	733
35°	784	764	728	706	693
37.5°	749	728	693	668	655
40°	715	693	655	629	616
42.5°	681	658	617	590	580
45°	645	620	581	549	540
47.5°	605	582	543	512	498
50°	567	543	504	473	458
52.5°	528	505	463	433	421
55°	490	463	425	393	381
57.5°	452	424	385	355	340
60°	411	384	346	316	302
62.5°	370	345	308	279	267
65°	332	305	267	241	230
67.5°	292	268	230	205	195
70°	249	228	192	169	161
72.5°	209	188	157	137	130
75°	170	150	122	106	102
77.5°	131	115	91	78	75
80°	95	84	63	56	53
82.5°	62	53	42	40	39
85°	34	29	26	25	25
87.5°	12	13	12	12	12
90°	0	0	0	0	0

(END OF REPORT)