

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: P33918

Luminaire Tested: **S125DW-135-0048-1D-UDD-1-W**

Test Date: 03/06/15

Test Information

Test Method: LM-79-08
Report Number: P33918
Test Lab: INNOVATION CENTER-P3
Test Date: 03/06/15
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S125DW-135-0048-1D-UDD-1-W
Description: NEORAY DIRECT- INDIRECT 5" FIXTURE WITH A FLUSH DIFFUSE LENS.LL1
Light Source: [117] NICHIA 3500K LED
Nichia 757D
Ballast/Driver: [1] OSRAM SYLVANIA ELECTRONIC DRIVER
OT50WPRG1400C

Summary

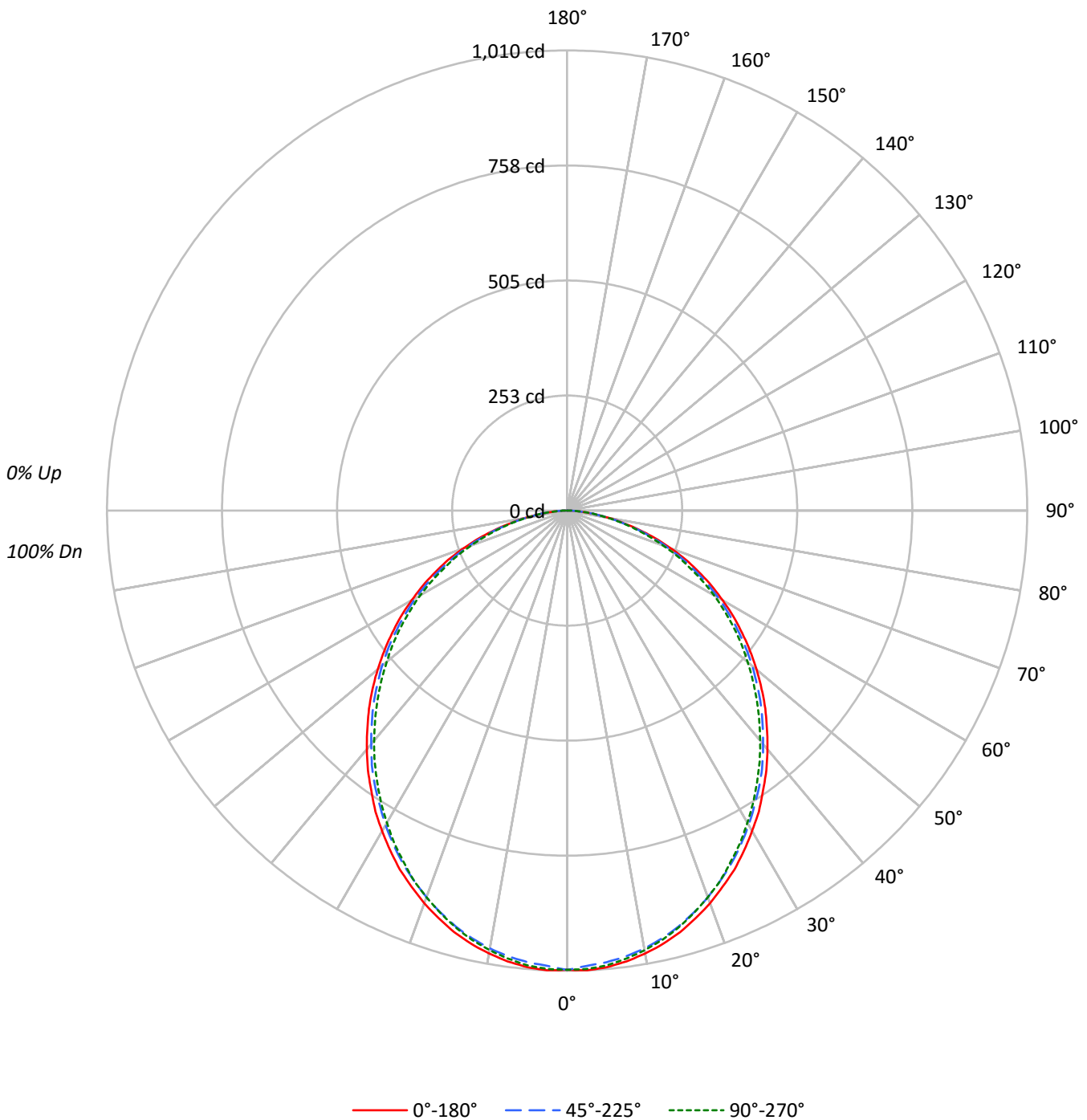
Lumens per Lamp: N/A
Luminaire Lumens: 2610.6 lumens
Efficiency: N/A
Efficacy: 92.9 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.17 / 1.3
Luminous Opening: Rectangular (W 0.42' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 28.1
Input Voltage (V): 120.0
Input Current (A_{in}): 0.236
Voltage Rise (V): NR
Power Factor: 0.9973
Total Harmonic Distortion (THDi): 7.39
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: HR
Ambient Temperature (°C): 24.9
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	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84
2	99	91	84	79	97	89	83	78	86	81	76	82	78	74	79	76	73	70
3	91	80	72	66	88	79	71	65	76	69	64	73	67	63	70	66	62	60
4	83	71	63	56	81	70	62	56	67	60	55	65	59	54	63	58	53	51
5	76	64	55	48	74	63	54	48	61	53	48	59	52	47	57	51	46	44
6	71	58	49	42	69	57	48	42	55	47	42	53	46	41	52	46	41	39
7	66	52	44	37	64	51	43	37	50	42	37	48	42	37	47	41	36	35
8	61	48	39	33	60	47	39	33	46	38	33	44	38	33	43	37	33	31
9	57	44	36	30	56	43	35	30	42	35	30	41	34	30	40	34	30	28
10	54	41	33	27	52	40	32	27	39	32	27	38	32	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6510	6510	6510
5°	6522	6451	6496
10°	6473	6401	6427
15°	6405	6318	6332
20°	6302	6206	6206
25°	6192	6086	6057
30°	6055	5944	5899
35°	5913	5803	5732
40°	5767	5640	5556
45°	5617	5489	5380
50°	5456	5325	5195
55°	5281	5146	5022
60°	5089	4960	4818
65°	4875	4691	4539
70°	4570	4381	4230
75°	4117	3943	3843
80°	3496	3422	3347
85°	2742	2816	2816



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.9	3.6
10°-20°	267.7	10.3
20°-30°	395.0	15.1
30°-40°	461.6	17.7
40°-50°	464.2	17.8
50°-60°	409.2	15.7
60°-70°	304.8	11.7
70°-80°	168.7	6.5
80°-90°	44.3	1.7
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°	757.7	29.0
0°-40°	1219.3	46.7
0°-60°	2092.7	80.2
0°-90°	2610.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2610.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1008	1008	1008	1008	1008	
5°	1006	1003	995	1002	1002	95
15°	958	955	945	950	947	270
25°	869	865	854	854	850	400
35°	750	746	736	731	727	469
45°	615	613	601	593	589	474
55°	469	467	457	449	446	420
65°	319	315	307	301	297	316
75°	165	163	158	155	154	175
85°	37	37	38	38	38	44
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1008	1008	1008	1008	1008
2.5°	1010	1008	1000	1007	1007
5°	1006	1003	995	1002	1002
7.5°	998	995	987	994	992
10°	987	984	976	982	980
12.5°	974	971	962	967	965
15°	958	955	945	950	947
17.5°	938	935	925	930	926
20°	917	913	903	906	903
22.5°	893	890	879	881	879
25°	869	865	854	854	850
27.5°	841	838	826	825	822
30°	812	808	797	795	791
32.5°	783	778	766	764	760
35°	750	746	736	731	727
37.5°	718	715	704	698	694
40°	684	681	669	663	659
42.5°	649	645	635	628	624
45°	615	613	601	593	589
47.5°	579	576	565	558	553
50°	543	539	530	522	517
52.5°	506	504	494	486	482
55°	469	467	457	449	446
57.5°	433	430	420	413	408
60°	394	392	384	375	373
62.5°	357	353	346	338	335
65°	319	315	307	301	297
67.5°	282	277	270	264	262
70°	242	237	232	226	224
72.5°	203	199	195	190	188
75°	165	163	158	155	154
77.5°	127	127	123	123	122
80°	94	93	92	90	90
82.5°	63	63	63	62	62
85°	37	37	38	38	38
87.5°	16	17	17	17	17
90°	0	0	0	0	0

(END OF REPORT)