

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: NEO-RAY

Report Number: P1034530

Luminaire Tested: S125DIW-B375D770UB2750-4F0-XX-W2A-D_2700K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1034530
REPORT IS A COMBINATION OF REPORTS P1003661 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIW-B375D770UB2750-4F0-XX-W2A-D_2700K
Description: Define 5 Direct/Indirect Wall Mount with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

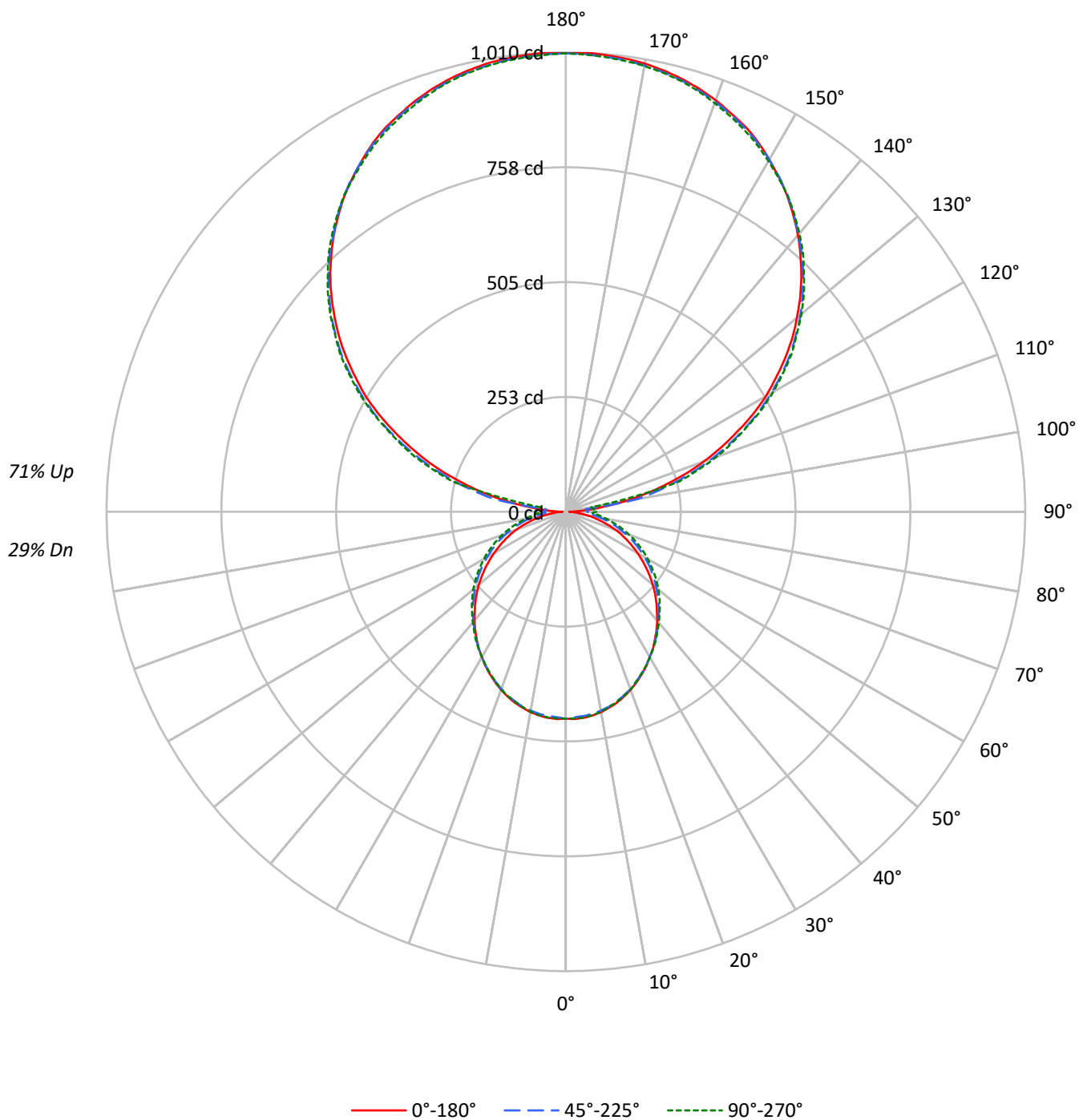
Lumens per Lamp: N/A
Luminaire Lumens: 4507.0 lumens
Efficiency: N/A
Efficacy: 124.5 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 36.2
Input Voltage (V):
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: 24 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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	102	102	102	102	92	92	92	92	72	72	72	54	54	54	37	37	37
1	93	88	84	81	83	79	76	73	62	60	58	47	45	44	32	31	30
2	84	77	71	66	75	69	64	59	54	51	48	41	38	36	28	27	25
3	77	67	60	54	68	61	54	49	48	43	40	36	33	30	25	23	21
4	70	59	52	46	62	53	47	42	42	37	34	32	28	26	22	20	18
5	64	53	45	39	57	47	41	35	38	33	29	28	25	22	20	18	16
6	59	47	39	33	53	42	36	31	34	29	25	25	22	19	18	16	14
7	54	42	35	29	48	38	31	27	30	25	22	23	20	17	16	14	12
8	50	38	31	26	45	35	28	23	28	23	19	21	18	15	15	13	11
9	47	35	28	23	42	32	25	21	25	20	17	19	16	13	14	11	10
10	44	32	25	20	39	29	23	18	23	18	15	18	14	12	13	10	9

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2914	2914	2914
5°	2919	2853	2860
10°	2897	2795	2787
15°	2862	2727	2697
20°	2814	2646	2608
25°	2757	2558	2500
30°	2690	2464	2401
35°	2626	2376	2311
40°	2561	2284	2220
45°	2488	2204	2138
50°	2417	2117	2064
55°	2333	2034	1977
60°	2240	1940	1889
65°	2143	1841	1790
70°	2032	1708	1686
75°	1857	1577	1561
80°	1629	1417	1421
85°	1401	1289	1347

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 2488 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	43.0	1.0
10°-20°	122.2	2.7
20°-30°	181.7	4.0
30°-40°	215.2	4.8
40°-50°	222.5	4.9
50°-60°	204.9	4.5
60°-70°	165.7	3.7
70°-80°	110.8	2.5
80°-90°	58.8	1.3
90°-100°	66.5	1.5
100°-110°	251.3	5.6
110°-120°	425.6	9.4
120°-130°	534.9	11.9
130°-140°	569.5	12.6
140°-150°	531.6	11.8
150°-160°	429.4	9.5
160°-170°	277.7	6.2
170°-180°	95.8	2.1
0°-30°	346.9	7.7
0°-40°	562.1	12.5
0°-60°	989.5	22.0
0°-90°	1324.7	29.4
90°-120°	743.4	16.5
90°-150°	2379.4	52.8
90°-180°	3182.0	70.6
0°-180°	4507.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	455	455	455	455	455	
5°	455	454	451	454	454	43
15°	434	435	432	434	432	122
25°	395	396	393	395	393	182
35°	342	345	343	345	345	214
45°	281	286	288	292	292	217
55°	216	223	230	235	237	193
65°	149	159	170	177	178	148
75°	82	94	108	117	119	87
85°	24	39	55	65	68	26
90°	8	28	49	62	68	7
95°	48	58	45	58	61	57
105°	224	234	247	256	258	237
115°	415	422	434	439	438	412
125°	588	593	602	606	606	525
135°	732	736	738	742	740	565
145°	848	850	850	853	850	531
155°	934	930	931	933	927	430
165°	986	981	982	986	980	278
175°	1008	1004	1004	1010	1004	96
180°	1008	1008	1008	1008	1008	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	454.8	454.8	454.8	454.8	454.8
2.5°	456.2	455.3	452.2	455.3	454.8
5°	454.8	453.9	450.8	454.4	453.9
7.5°	451.7	451.3	448.1	451.3	450.8
10°	447.3	447.3	443.7	446.8	446.4
12.5°	441.0	441.5	438.8	441.0	439.7
15°	434.3	434.8	431.6	434.3	432.5
17.5°	425.9	426.7	423.6	425.9	424.5
20°	416.5	417.4	414.3	415.6	415.6
22.5°	405.8	407.6	404.0	405.8	404.4
25°	394.6	396.0	393.3	395.1	392.9
27.5°	382.6	384.4	381.3	382.6	381.7
30°	368.8	371.4	368.8	369.7	369.2
32.5°	356.3	358.5	356.7	357.6	357.2
35°	341.6	344.7	343.4	344.7	344.7
37.5°	327.3	330.0	329.5	331.3	330.9
40°	312.6	316.2	315.7	317.5	318.4
42.5°	296.5	301.4	302.8	305.0	305.0
45°	281.4	286.3	288.5	291.6	292.1
47.5°	265.8	270.2	273.8	278.3	279.1
50°	249.7	254.6	259.5	264.4	265.8
52.5°	232.8	239.0	245.3	250.6	251.5
55°	216.3	223.4	230.5	235.4	237.2
57.5°	199.3	207.8	215.8	221.2	222.5
60°	182.4	191.3	200.2	206.9	208.2
62.5°	165.9	174.8	184.6	192.2	194.0
65°	148.9	159.2	169.9	176.6	178.4
67.5°	133.3	143.1	153.8	161.9	164.1
70°	115.9	126.2	137.8	146.3	148.9
72.5°	99.0	109.7	122.6	132.0	133.8
75°	82.0	93.6	107.9	116.8	119.1
77.5°	65.5	78.9	92.3	102.1	103.9
80°	50.4	63.8	78.9	88.7	90.5
82.5°	36.6	50.8	66.4	75.8	79.4
85°	24.5	39.2	54.8	64.7	68.2
87.5°	15.6	29.9	45.0	55.3	58.4
90°	7.8	28.1	48.6	62.5	67.8
92.5°	20.4	26.7	46.8	60.3	64.1
95°	48.4	57.8	44.6	58.1	61.2
97.5°	85.4	100.5	44.3	55.0	59.0
100°	129.7	141.3	158.5	56.6	56.3
102.5°	174.9	186.3	201.7	212.1	151.9
105°	223.7	233.8	247.2	256.1	258.5
107.5°	274.1	280.3	294.7	304.4	304.1
110°	322.9	328.3	342.3	348.5	352.4

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	369.3	375.5	388.3	393.4	395.0
115°	415.2	422.0	434.4	439.4	437.6
117.5°	463.3	465.6	479.6	482.8	484.4
120°	508.1	508.7	521.2	527.3	526.3
122.5°	547.3	551.4	562.0	567.7	565.8
125°	588.4	593.1	602.1	606.2	606.2
127.5°	627.5	630.8	637.7	642.9	639.5
130°	663.4	666.7	673.7	677.7	676.2
132.5°	698.8	703.3	705.6	711.8	709.8
135°	732.5	736.4	738.2	742.5	740.2
137.5°	763.8	767.8	768.1	773.5	771.6
140°	794.0	795.5	795.2	801.6	798.9
142.5°	821.6	822.0	823.5	827.5	824.8
145°	848.5	849.6	849.6	852.6	849.9
147.5°	872.0	872.0	872.8	874.4	870.1
150°	894.5	893.0	894.5	896.0	890.4
152.5°	916.1	912.4	913.9	915.4	910.2
155°	934.1	929.6	931.1	933.3	927.3
157.5°	948.3	946.0	946.0	948.3	942.3
160°	963.2	958.7	959.5	962.5	956.5
162.5°	975.2	970.7	971.4	975.9	969.2
165°	985.6	981.1	981.9	986.4	980.4
167.5°	993.8	989.4	990.1	995.3	988.6
170°	1000.6	995.3	996.1	1002.1	995.3
172.5°	1005.1	999.8	1001.3	1006.6	999.8
175°	1008.0	1003.6	1004.3	1010.3	1003.6
177.5°	1010.3	1005.8	1006.6	1011.8	1005.8
180°	1008.0	1008.0	1008.0	1008.0	1008.0

(END OF REPORT)