

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: P1035078

Luminaire Tested: S125DIW-B1090D770UB40-4F0-XX-W2A-F

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1035078
REPORT IS A COMBINATION OF REPORTS P1003037 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIW-B1090D770UB40-4F0-XX-W2A-F
Description: Define 5 Direct/Indirect Wall Mount with 4000K BioUP LEDs {m-DER=0.865} {m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

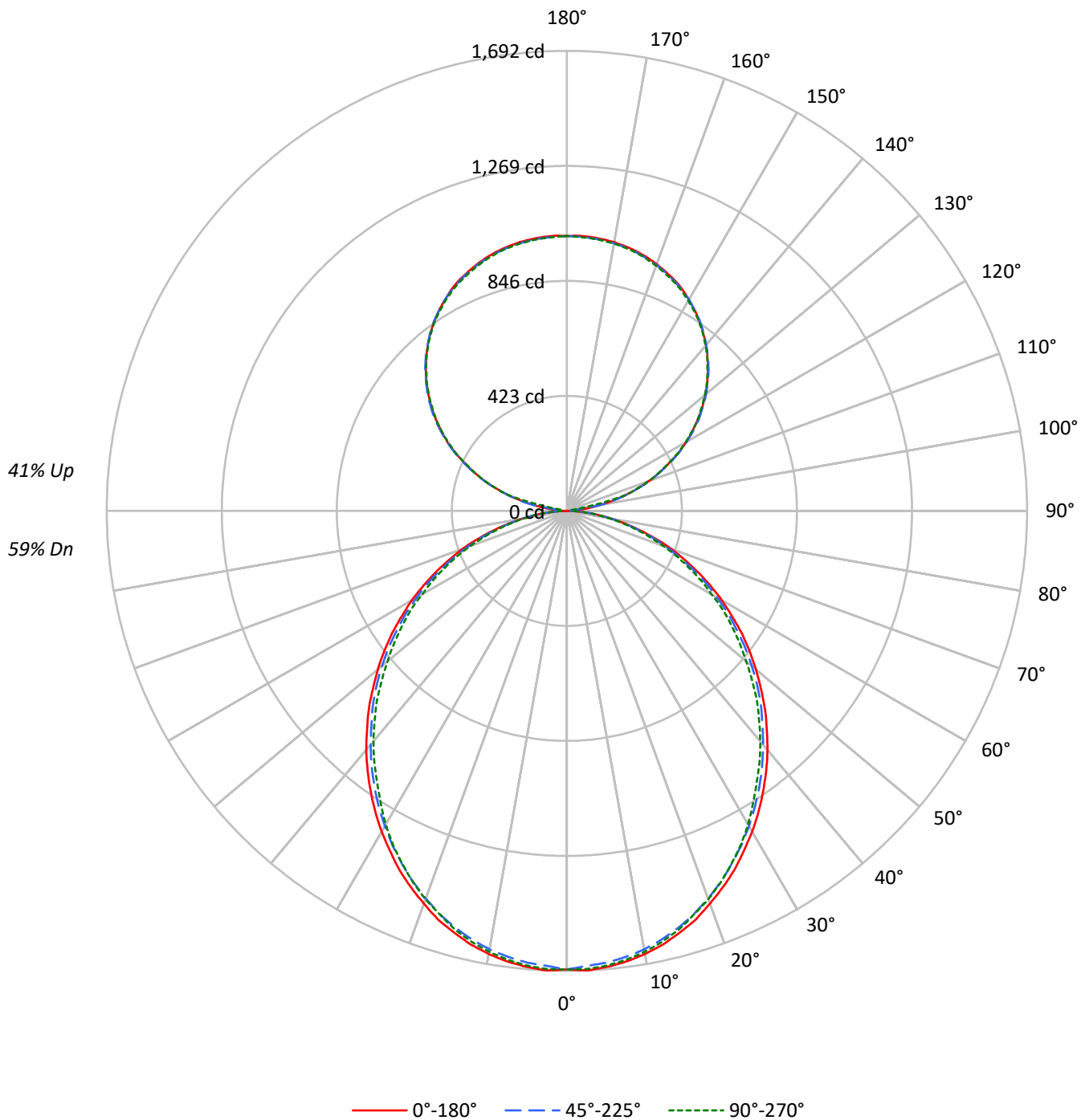
Lumens per Lamp: N/A
Luminaire Lumens: 7497.0 lumens
Efficiency: N/A
Efficacy: 107.1 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 70
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	109	109	109	109	102	102	102	102	88	88	88	76	76	76	64	64	64
1	100	95	91	88	93	89	86	82	77	75	72	66	65	63	56	55	54
2	91	83	77	72	84	78	72	68	68	63	60	58	55	52	50	47	45
3	83	73	66	60	77	68	62	56	60	55	50	52	48	44	44	41	39
4	76	65	57	50	70	61	53	48	53	47	43	46	42	38	39	36	33
5	70	58	49	43	65	54	47	41	47	42	37	41	37	33	35	32	29
6	64	52	44	38	60	49	41	36	43	37	32	37	33	29	32	28	26
7	59	47	39	33	55	44	37	31	39	33	29	34	29	26	29	26	23
8	55	43	35	29	51	40	33	28	35	30	25	31	26	23	27	23	20
9	51	39	31	26	48	37	30	25	33	27	23	29	24	21	25	21	18
10	48	36	28	23	45	34	27	22	30	24	21	26	22	19	23	19	17

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10807	10807	10807
5°	10807	10556	10576
10°	10717	10314	10281
15°	10577	10024	9935
20°	10387	9689	9537
25°	10183	9322	9111
30°	9936	8941	8662
35°	9673	8542	8159
40°	9401	8119	7711
45°	9107	7707	7237
50°	8783	7240	6683
55°	8462	6724	6174
60°	8081	6181	5582
65°	7623	5553	4969
70°	7157	4830	4262
75°	6376	3977	3446
80°	5432	2971	2535
85°	4197	1756	1397

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 9107 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	159.2	2.1
10°-20°	449.6	6.0
20°-30°	663.7	8.9
30°-40°	774.4	10.3
40°-50°	777.7	10.4
50°-60°	682.7	9.1
60°-70°	508.5	6.8
70°-80°	290.4	3.9
80°-90°	85.3	1.1
90°-100°	34.3	0.5
100°-110°	228.2	3.0
110°-120°	410.9	5.5
120°-130°	527.4	7.0
130°-140°	567.2	7.6
140°-150°	532.4	7.1
150°-160°	430.6	5.7
160°-170°	278.5	3.7
170°-180°	96.0	1.3
0°-30°	1272.4	17.0
0°-40°	2046.8	27.3
0°-60°	3507.2	46.8
0°-90°	4391.5	58.6
90°-120°	673.4	9.0
90°-150°	2300.3	30.7
90°-180°	3106.0	41.4
0°-180°	7497.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1687	1687	1687	1687	1687	
5°	1684	1681	1668	1680	1679	160
15°	1605	1601	1587	1593	1593	453
25°	1457	1450	1433	1436	1432	670
35°	1258	1253	1234	1228	1217	787
45°	1030	1025	1009	993	989	794
55°	785	781	762	750	741	700
65°	530	527	512	500	495	525
75°	282	279	272	268	263	300
85°	73	75	75	73	71	80
90°	1	7	12	16	18	7
95°	43	40	12	16	16	52
105°	220	223	223	223	223	233
115°	414	417	418	415	411	410
125°	588	594	594	590	588	526
135°	734	738	737	735	731	566
145°	851	852	852	853	848	532
155°	937	932	934	936	930	432
165°	988	984	985	989	983	279
175°	1011	1006	1007	1013	1006	96
180°	1011	1011	1011	1011	1011	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1686.7	1686.7	1686.7	1686.7	1686.7
2.5°	1692.0	1688.0	1674.7	1688.0	1686.7
5°	1684.0	1681.3	1668.0	1680.0	1678.7
7.5°	1672.0	1669.3	1654.6	1666.7	1665.3
10°	1654.6	1652.0	1637.3	1648.0	1646.6
12.5°	1633.3	1628.0	1614.6	1622.6	1622.6
15°	1605.3	1601.3	1586.6	1593.3	1593.3
17.5°	1575.9	1569.2	1554.6	1562.6	1555.9
20°	1537.2	1534.6	1517.2	1526.5	1519.9
22.5°	1498.5	1493.2	1477.2	1482.5	1478.5
25°	1457.2	1450.5	1433.1	1435.8	1431.8
27.5°	1409.1	1405.1	1387.8	1389.1	1385.1
30°	1362.4	1358.4	1338.4	1335.7	1331.7
32.5°	1311.7	1305.0	1287.7	1282.4	1274.3
35°	1258.3	1253.0	1234.3	1227.6	1217.0
37.5°	1203.6	1197.0	1179.6	1170.3	1163.6
40°	1147.6	1140.9	1122.2	1110.2	1106.2
42.5°	1087.5	1082.2	1063.5	1052.8	1046.2
45°	1030.2	1024.8	1008.8	992.8	988.8
47.5°	967.4	968.8	948.8	932.7	923.4
50°	907.4	903.4	887.4	870.0	860.7
52.5°	846.0	843.3	826.0	811.3	800.6
55°	784.6	780.6	761.9	749.9	740.6
57.5°	719.2	717.9	701.9	685.9	681.9
60°	657.9	652.5	637.8	624.5	615.2
62.5°	593.8	589.8	577.8	563.1	556.4
65°	529.8	527.1	512.4	500.4	495.1
67.5°	467.0	461.7	451.0	440.4	437.7
70°	408.3	401.7	389.6	381.6	376.3
72.5°	344.3	340.3	333.6	324.3	318.9
75°	281.6	278.9	272.2	268.2	262.9
77.5°	222.8	221.5	217.5	214.8	210.8
80°	168.1	168.1	165.5	164.1	161.5
82.5°	120.1	117.4	117.4	114.8	114.8
85°	73.4	74.7	74.7	73.4	70.7
87.5°	36.0	36.0	34.7	34.7	32.0
90°	0.7	6.7	12.0	15.7	18.0
92.5°	14.2	7.5	12.0	15.7	16.5
95°	42.7	40.5	12.0	15.7	15.7
97.5°	80.2	84.7	13.5	15.0	15.7
100°	125.2	127.4	130.4	18.7	15.7
102.5°	170.9	173.9	175.4	176.9	113.9
105°	220.3	223.3	223.3	223.3	222.6
107.5°	271.3	271.3	272.8	273.5	270.5
110°	320.8	320.8	322.3	320.0	320.8

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	367.2	369.5	370.2	367.2	365.7
115°	413.7	417.4	418.2	415.2	410.7
117.5°	462.4	462.4	465.4	460.9	459.4
120°	507.4	506.6	508.9	507.4	503.6
122.5°	547.1	550.8	551.6	550.1	545.6
125°	588.3	593.5	593.5	590.5	588.3
127.5°	628.0	631.8	631.0	629.5	623.5
130°	664.0	667.7	668.5	666.2	662.5
132.5°	700.0	704.5	702.2	702.2	698.5
135°	733.7	738.2	736.7	735.2	730.7
137.5°	765.2	769.7	768.2	768.2	764.4
140°	795.9	797.4	796.6	798.1	793.6
142.5°	823.6	824.4	825.9	825.9	821.4
145°	850.6	852.1	852.1	852.8	848.3
147.5°	874.6	874.6	875.3	876.1	870.8
150°	897.1	895.6	897.1	898.6	892.6
152.5°	918.8	915.0	916.5	918.0	912.8
155°	936.8	932.3	933.8	936.0	930.0
157.5°	951.0	948.8	948.8	951.0	945.0
160°	966.0	961.5	962.3	965.3	959.3
162.5°	978.0	973.5	974.3	978.7	972.0
165°	988.5	984.0	984.7	989.2	983.2
167.5°	996.7	992.2	993.0	998.2	991.5
170°	1003.5	998.2	999.0	1005.0	998.2
172.5°	1008.0	1002.7	1004.2	1009.5	1002.7
175°	1011.0	1006.5	1007.2	1013.2	1006.5
177.5°	1013.2	1008.7	1009.5	1014.7	1008.7
180°	1011.0	1011.0	1011.0	1011.0	1011.0

(END OF REPORT)