

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: P1027312

Luminaire Tested: S125DIP-B1090D1090UB27-4F0-XX-W2A-F4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1027312
REPORT IS A COMBINATION OF REPORTS P1001227 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B1090D1090UB27-4F0-XX-W2A-F4
Description: Define 5 Direct/Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

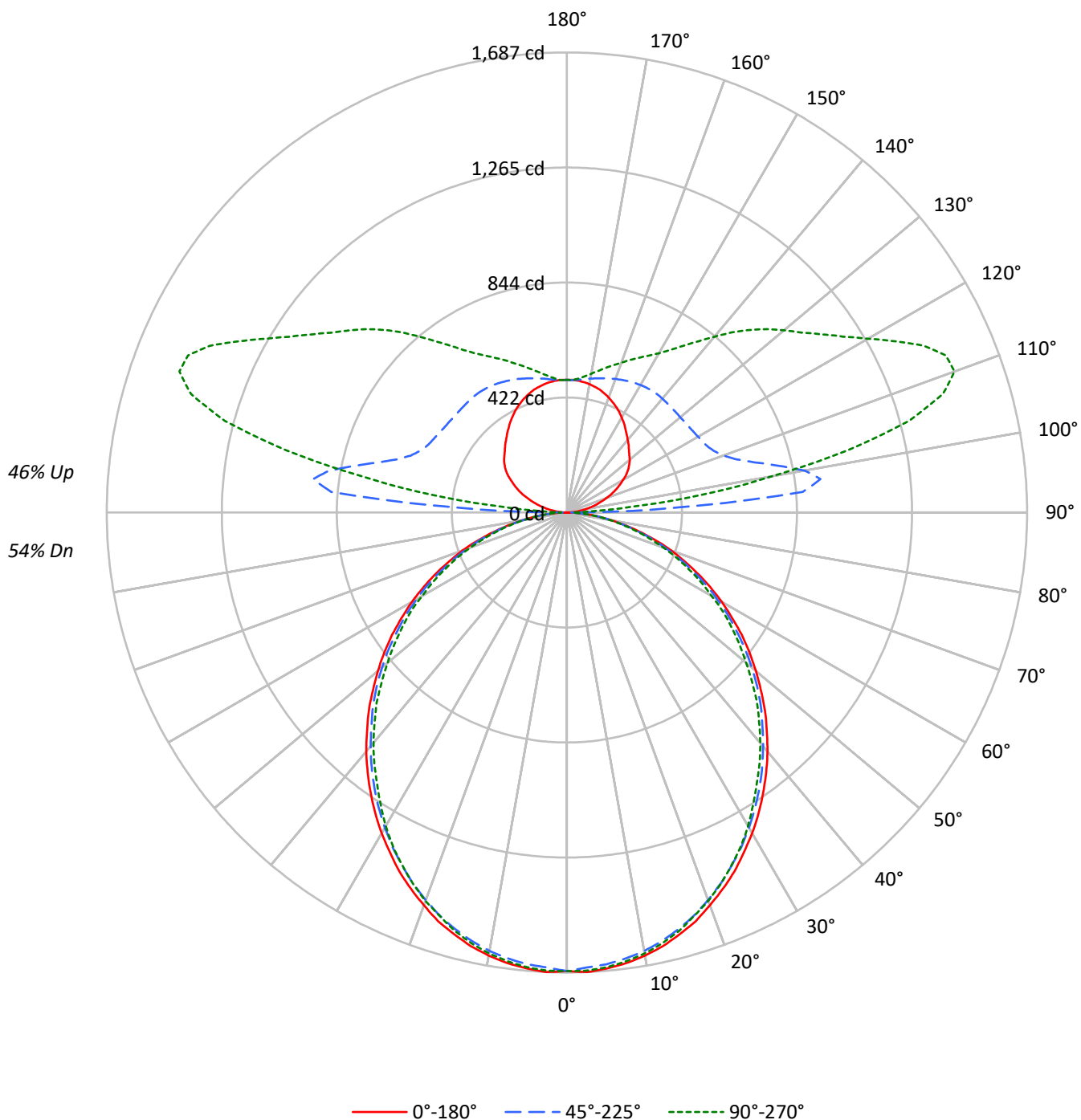
Lumens per Lamp: N/A
Luminaire Lumens: 8036.5 lumens
Efficiency: N/A
Efficacy: 106.7 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 75.3
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					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	108	108	108	108	100	100	100	100	86	86	86	72	72	72	60	60	60	54		
1	99	94	90	87	91	88	84	81	75	73	70	64	62	60	53	52	51	46		
2	90	82	76	71	83	77	71	67	66	62	58	56	53	50	47	45	43	38		
3	82	72	65	59	76	67	61	56	58	53	49	49	46	43	41	39	36	32		
4	75	64	56	50	69	60	53	47	52	46	42	44	40	36	37	34	31	28		
5	69	57	49	43	64	53	46	40	46	40	36	40	35	32	33	30	27	24		
6	63	51	43	37	59	48	41	35	42	36	31	36	31	28	30	27	24	21		
7	59	46	38	33	54	43	36	31	38	32	28	33	28	24	28	24	21	19		
8	54	42	34	29	50	39	32	27	34	29	25	30	25	22	25	22	19	17		
9	51	38	31	26	47	36	29	24	32	26	22	27	23	20	23	20	17	15		
10	47	35	28	23	44	33	26	22	29	24	20	25	21	18	22	18	16	14		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10775	10775	10775
5°	10775	10525	10545
10°	10686	10284	10251
15°	10546	9995	9905
20°	10356	9660	9508
25°	10152	9295	9084
30°	9907	8915	8636
35°	9644	8517	8135
40°	9373	8095	7688
45°	9080	7684	7215
50°	8757	7218	6663
55°	8437	6705	6155
60°	8056	6164	5564
65°	7600	5537	4954
70°	7136	4816	4249
75°	6356	3965	3436
80°	5416	2962	2528
85°	4185	1752	1393

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 9080 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	158.7	2.0
10°-20°	448.2	5.6
20°-30°	661.7	8.2
30°-40°	772.1	9.6
40°-50°	775.4	9.6
50°-60°	680.7	8.5
60°-70°	507.0	6.3
70°-80°	289.6	3.6
80°-90°	85.5	1.1
90°-100°	366.0	4.6
100°-110°	760.1	9.5
110°-120°	710.0	8.8
120°-130°	574.5	7.1
130°-140°	461.6	5.7
140°-150°	348.4	4.3
150°-160°	245.3	3.1
160°-170°	144.6	1.8
170°-180°	47.0	0.6
0°-30°	1268.7	15.8
0°-40°	2040.7	25.4
0°-60°	3496.8	43.5
0°-90°	4378.9	54.5
90°-120°	1836.1	22.8
90°-150°	3220.6	40.1
90°-180°	3658.0	45.5
0°-180°	8036.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1682	1682	1682	1682	1682	
5°	1679	1676	1663	1675	1674	159
15°	1600	1596	1582	1588	1588	451
25°	1453	1446	1429	1432	1428	668
35°	1255	1249	1231	1224	1213	785
45°	1027	1022	1006	990	986	791
55°	782	778	760	748	738	698
65°	528	526	511	499	494	524
75°	281	278	271	267	262	299
85°	73	74	74	73	70	80
90°	1	9	16	21	22	7
95°	32	96	868	394	230	34
105°	111	155	710	1399	1298	117
115°	198	239	570	1229	1446	195
125°	274	321	547	978	1140	244
135°	321	386	543	820	946	249
145°	374	429	545	678	747	235
155°	427	460	531	600	626	197
165°	466	479	510	540	549	131
175°	485	485	489	495	493	46
180°	486	486	486	486	486	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1681.7	1681.7	1681.7	1681.7	1681.7
2.5°	1687.0	1683.0	1669.7	1683.0	1681.7
5°	1679.0	1676.4	1663.1	1675.0	1673.7
7.5°	1667.0	1664.4	1649.7	1661.7	1660.4
10°	1649.7	1647.1	1632.5	1643.1	1641.8
12.5°	1628.5	1623.1	1609.8	1617.8	1617.8
15°	1600.5	1596.5	1581.9	1588.5	1588.5
17.5°	1571.3	1564.6	1550.0	1557.9	1551.3
20°	1532.7	1530.0	1512.7	1522.0	1515.4
22.5°	1494.1	1488.8	1472.8	1478.1	1474.1
25°	1452.8	1446.2	1428.9	1431.6	1427.6
27.5°	1404.9	1401.0	1383.7	1385.0	1381.0
30°	1358.4	1354.4	1334.4	1331.8	1327.8
32.5°	1307.8	1301.2	1283.9	1278.6	1270.6
35°	1254.6	1249.3	1230.7	1224.0	1213.4
37.5°	1200.1	1193.4	1176.1	1166.8	1160.1
40°	1144.2	1137.5	1118.9	1106.9	1102.9
42.5°	1084.3	1079.0	1060.4	1049.7	1043.1
45°	1027.1	1021.8	1005.8	989.8	985.9
47.5°	964.6	965.9	945.9	930.0	920.7
50°	904.7	900.7	884.7	867.4	858.1
52.5°	843.5	840.8	823.5	808.9	798.3
55°	782.3	778.3	759.7	747.7	738.4
57.5°	717.1	715.8	699.8	683.8	679.9
60°	655.9	650.6	636.0	622.6	613.3
62.5°	592.0	588.1	576.1	561.4	554.8
65°	528.2	525.5	510.9	498.9	493.6
67.5°	465.7	460.3	449.7	439.0	436.4
70°	407.1	400.5	388.5	380.5	375.2
72.5°	343.3	339.3	332.6	323.3	318.0
75°	280.7	278.1	271.4	267.4	262.1
77.5°	222.2	220.9	216.9	214.2	210.2
80°	167.6	167.6	165.0	163.6	161.0
82.5°	119.7	117.1	117.1	114.4	114.4
85°	73.2	74.5	74.5	73.2	70.5
87.5°	35.9	35.9	34.6	34.6	31.9
90°	1.0	8.8	15.7	20.6	22.5
92.5°	14.7	80.4	390.9	104.4	72.5
95°	32.3	95.6	868.1	393.8	230.2
97.5°	50.0	103.4	937.6	711.3	504.6
100°	68.6	118.6	884.7	1005.2	764.2
102.5°	89.2	135.7	791.7	1254.1	1054.2
105°	110.7	154.8	710.3	1398.6	1298.2
107.5°	131.3	174.8	649.6	1439.2	1445.2
110°	153.8	196.0	609.4	1400.6	1511.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	176.4	217.0	585.9	1319.8	1503.9
115°	197.9	238.6	570.2	1229.1	1446.1
117.5°	217.5	260.6	561.4	1146.8	1358.9
120°	237.1	281.6	555.5	1077.8	1274.7
122.5°	257.7	302.2	550.6	1022.4	1200.2
125°	274.3	321.4	546.7	977.8	1139.5
127.5°	288.1	340.0	544.8	939.6	1083.6
130°	300.8	357.6	542.8	900.9	1039.5
132.5°	310.6	373.3	542.8	859.2	995.4
135°	321.4	386.5	542.8	819.6	946.5
137.5°	335.1	398.8	543.8	777.9	895.5
140°	346.8	409.0	544.8	739.7	841.6
142.5°	360.6	418.8	545.7	706.9	791.7
145°	374.3	428.6	544.8	678.5	746.6
147.5°	389.0	437.5	542.8	654.0	706.4
150°	401.7	445.3	539.9	633.9	674.1
152.5°	415.4	453.2	535.9	616.8	648.6
155°	427.2	459.6	531.0	600.1	626.1
157.5°	438.0	465.9	526.1	584.4	605.5
160°	448.7	470.8	521.2	568.8	584.9
162.5°	457.6	475.6	515.4	554.6	566.3
165°	466.4	479.1	509.5	540.3	548.7
167.5°	472.2	481.0	503.6	527.2	532.0
170°	478.1	483.5	498.7	514.4	517.3
172.5°	482.0	484.5	492.8	504.1	503.6
175°	485.0	485.0	488.9	494.8	492.8
177.5°	486.9	485.0	486.0	488.9	486.0
180°	486.0	486.0	486.0	486.0	486.0

(END OF REPORT)