

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: P1027557

Luminaire Tested: S125DIP-B1270D1090UB40-4F0-XX-W2A-D1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1027557
REPORT IS A COMBINATION OF REPORTS P1001565 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B1270D1090UB40-4F0-XX-W2A-D1
Description: Define 5 Direct/Indirect Pendant with 4000K BioUP LEDs {m-DER=0.865} {m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

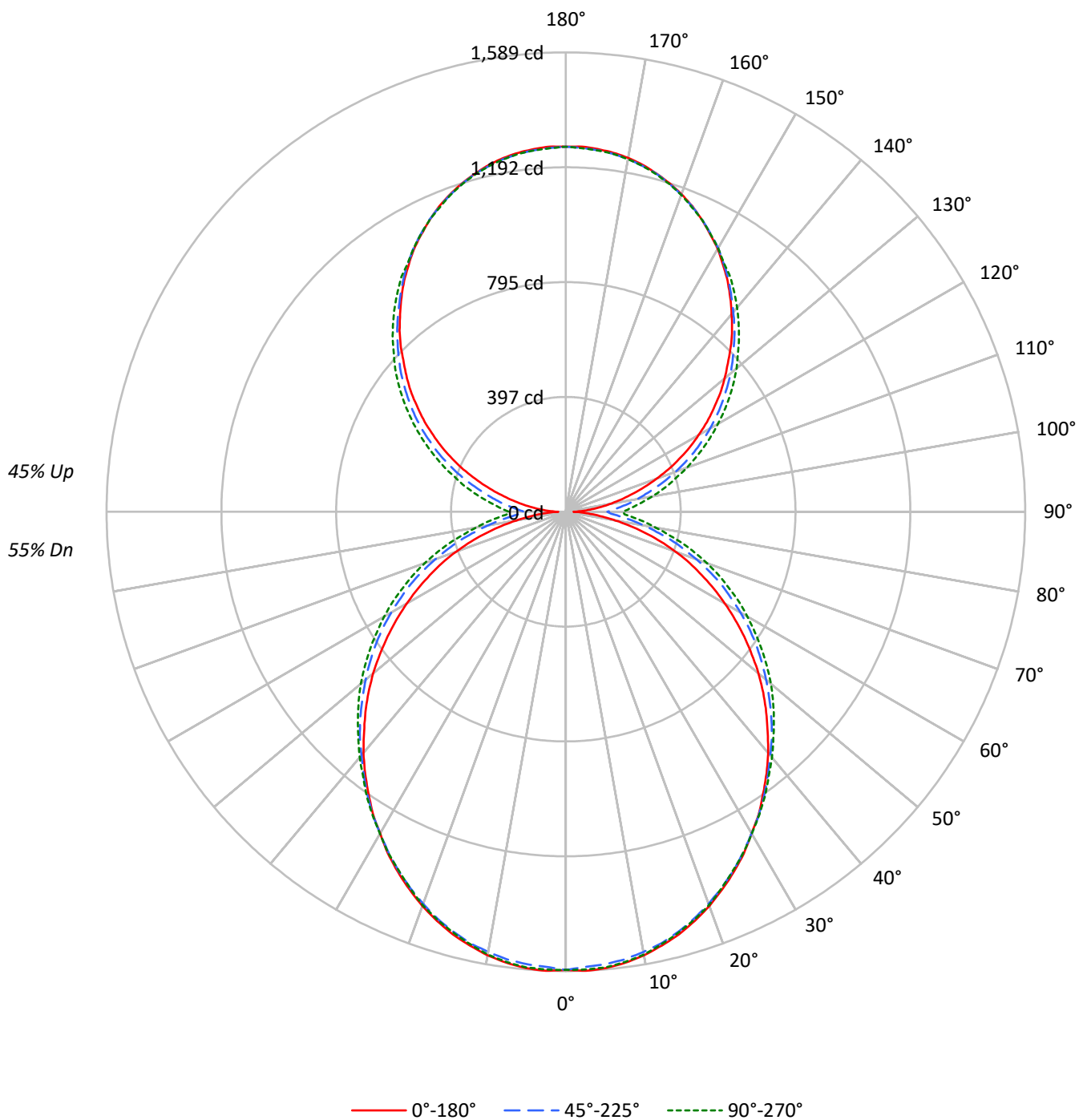
Lumens per Lamp: N/A
Luminaire Lumens: 8435.0 lumens
Efficiency: N/A
Efficacy: 93.9 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 89.8
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	108	108	108	108	100	100	100	100	86	86	86	73	73	73	60	60	60
1	98	93	89	85	91	87	83	80	74	71	69	63	61	59	52	51	49
2	89	81	75	69	82	75	70	65	65	60	56	55	51	49	45	43	41
3	81	71	63	57	75	66	59	54	57	51	47	48	44	41	40	37	35
4	74	63	54	48	68	58	51	45	50	44	40	43	38	35	36	32	30
5	68	56	47	41	63	52	44	39	45	39	34	38	34	30	32	28	26
6	62	50	42	36	58	47	39	34	40	34	30	34	30	26	29	25	22
7	58	45	37	31	53	42	35	29	37	31	26	31	27	23	26	23	20
8	54	41	33	27	50	38	31	26	33	27	23	29	24	21	24	21	18
9	50	37	30	24	46	35	28	23	31	25	21	26	22	18	22	19	16
10	47	34	27	22	43	32	25	21	28	23	19	24	20	17	21	17	15

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10153	10153	10153
5°	10170	9940	9965
10°	10093	9737	9710
15°	9970	9502	9397
20°	9805	9217	9085
25°	9608	8914	8709
30°	9370	8583	8367
35°	9148	8279	8051
40°	8922	7957	7733
45°	8666	7679	7447
50°	8421	7377	7189
55°	8127	7089	6890
60°	7804	6761	6582
65°	7466	6414	6236
70°	7080	5952	5876
75°	6473	5494	5437
80°	5675	4937	4951
85°	4883	4493	4696

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 8666 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	150.0	1.8
10°-20°	425.7	5.0
20°-30°	633.0	7.5
30°-40°	749.7	8.9
40°-50°	775.0	9.2
50°-60°	714.0	8.5
60°-70°	577.2	6.8
70°-80°	386.2	4.6
80°-90°	201.6	2.4
90°-100°	196.4	2.3
100°-110°	332.3	3.9
110°-120°	478.5	5.7
120°-130°	588.3	7.0
130°-140°	637.8	7.6
140°-150°	614.4	7.3
150°-160°	513.8	6.1
160°-170°	341.6	4.0
170°-180°	119.5	1.4
0°-30°	1208.7	14.3
0°-40°	1958.3	23.2
0°-60°	3447.3	40.9
0°-90°	4612.3	54.7
90°-120°	1007.2	11.9
90°-150°	2847.9	33.8
90°-180°	3823.0	45.3
0°-180°	8435.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1585	1585	1585	1585	1585	
5°	1585	1582	1571	1583	1582	150
15°	1513	1515	1504	1513	1507	426
25°	1375	1380	1370	1376	1369	633
35°	1190	1201	1196	1201	1201	745
45°	980	997	1005	1016	1018	756
55°	754	778	803	820	826	673
65°	519	555	592	615	621	515
75°	286	326	376	407	415	303
85°	85	137	191	225	238	89
90°	26	83	143	184	198	22
95°	84	126	189	230	243	83
105°	238	268	320	357	371	254
115°	433	448	490	517	525	428
125°	624	629	661	684	690	559
135°	807	811	823	843	847	622
145°	975	978	981	988	992	609
155°	1114	1114	1115	1119	1114	513
165°	1212	1210	1211	1214	1209	342
175°	1260	1256	1256	1262	1255	120
180°	1263	1263	1263	1263	1263	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1584.7	1584.7	1584.7	1584.7	1584.7
2.5°	1589.3	1586.2	1575.3	1586.2	1584.7
5°	1584.7	1581.6	1570.7	1583.1	1581.6
7.5°	1573.8	1572.2	1561.4	1572.2	1570.7
10°	1558.2	1558.2	1545.8	1556.7	1555.1
12.5°	1536.5	1538.1	1528.7	1536.5	1531.8
15°	1513.2	1514.7	1503.9	1513.2	1507.0
17.5°	1483.7	1486.8	1475.9	1483.7	1479.0
20°	1451.1	1454.2	1443.3	1447.9	1447.9
22.5°	1413.8	1420.0	1407.6	1413.8	1409.1
25°	1374.9	1379.6	1370.3	1376.5	1368.7
27.5°	1333.0	1339.2	1328.3	1333.0	1329.9
30°	1284.8	1294.1	1284.8	1287.9	1286.4
32.5°	1241.3	1249.1	1242.9	1246.0	1244.4
35°	1190.0	1200.9	1196.3	1200.9	1200.9
37.5°	1140.3	1149.7	1148.1	1154.3	1152.8
40°	1089.1	1101.5	1099.9	1106.2	1109.3
42.5°	1033.1	1050.2	1054.9	1062.7	1062.7
45°	980.3	997.4	1005.2	1016.0	1017.6
47.5°	925.9	941.5	953.9	969.4	972.5
50°	870.0	887.1	904.2	921.3	925.9
52.5°	811.0	832.7	854.5	873.1	876.2
55°	753.5	778.3	803.2	820.3	826.5
57.5°	694.5	724.0	751.9	770.6	775.2
60°	635.4	666.5	697.6	720.9	725.5
62.5°	577.9	609.0	643.2	669.6	675.8
65°	518.9	554.6	591.9	615.2	621.4
67.5°	464.5	498.7	536.0	564.0	571.7
70°	403.9	439.7	480.1	509.6	518.9
72.5°	344.9	382.2	427.2	459.9	466.1
75°	285.9	326.3	376.0	407.0	414.8
77.5°	228.4	275.0	321.6	355.8	362.0
80°	175.6	222.2	275.0	309.2	315.4
82.5°	127.4	177.1	231.5	264.1	276.5
85°	85.4	136.7	191.1	225.3	237.7
87.5°	54.4	104.1	156.9	192.6	203.5
90°	25.9	83.4	143.1	183.7	197.6
92.5°	51.3	101.2	164.4	205.5	218.3
95°	84.1	126.4	189.1	230.1	243.0
97.5°	116.9	155.1	220.2	258.7	270.6
100°	154.7	187.3	249.7	291.3	302.6
102.5°	195.3	229.8	282.8	323.8	336.0
105°	238.0	267.8	320.2	357.2	371.1
107.5°	284.6	311.3	361.2	395.3	404.6
110°	333.2	356.7	403.2	435.6	445.5

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	384.3	400.3	446.1	475.1	483.9
115°	432.8	447.6	490.0	517.0	525.3
117.5°	482.4	491.1	532.0	559.3	566.3
120°	529.6	539.1	575.9	602.3	607.6
122.5°	579.1	581.7	618.7	642.6	649.0
125°	624.3	628.7	660.7	683.6	690.4
127.5°	672.9	674.2	701.6	723.9	731.3
130°	717.1	720.4	744.2	764.9	770.7
132.5°	759.7	768.6	783.1	803.9	807.2
135°	806.9	811.3	823.1	843.3	847.1
137.5°	851.1	855.5	863.7	883.3	884.5
140°	891.9	896.8	901.2	920.3	921.6
142.5°	934.1	936.4	940.4	955.4	956.6
145°	975.4	977.7	980.7	988.5	991.7
147.5°	1012.1	1015.1	1017.0	1023.1	1018.3
150°	1050.4	1049.4	1053.4	1053.4	1053.0
152.5°	1081.9	1083.8	1084.8	1087.8	1083.8
155°	1114.3	1114.3	1115.3	1119.2	1114.3
157.5°	1143.8	1141.8	1142.8	1146.7	1139.9
160°	1169.3	1166.4	1167.4	1171.3	1166.4
162.5°	1191.9	1190.0	1190.0	1194.9	1189.0
165°	1211.6	1209.6	1210.6	1214.5	1208.6
167.5°	1229.3	1225.3	1225.3	1231.2	1225.3
170°	1243.0	1239.1	1239.1	1245.0	1238.1
172.5°	1252.9	1248.9	1248.9	1254.8	1248.9
175°	1259.7	1255.8	1255.8	1261.7	1254.8
177.5°	1264.6	1260.7	1259.7	1265.6	1258.7
180°	1262.7	1262.7	1262.7	1262.7	1262.7

(END OF REPORT)