

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: P1027603

Luminaire Tested: S125DIP-B1270D1270UB40-4F0-XX-W2A-D4

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1027603
REPORT IS A COMBINATION OF REPORTS P1001626 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B1270D1270UB40-4F0-XX-W2A-D4
Description: Define 5 Direct/Indirect Pendant with 4000K BioUP LEDs {m-DER=0.865} {m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

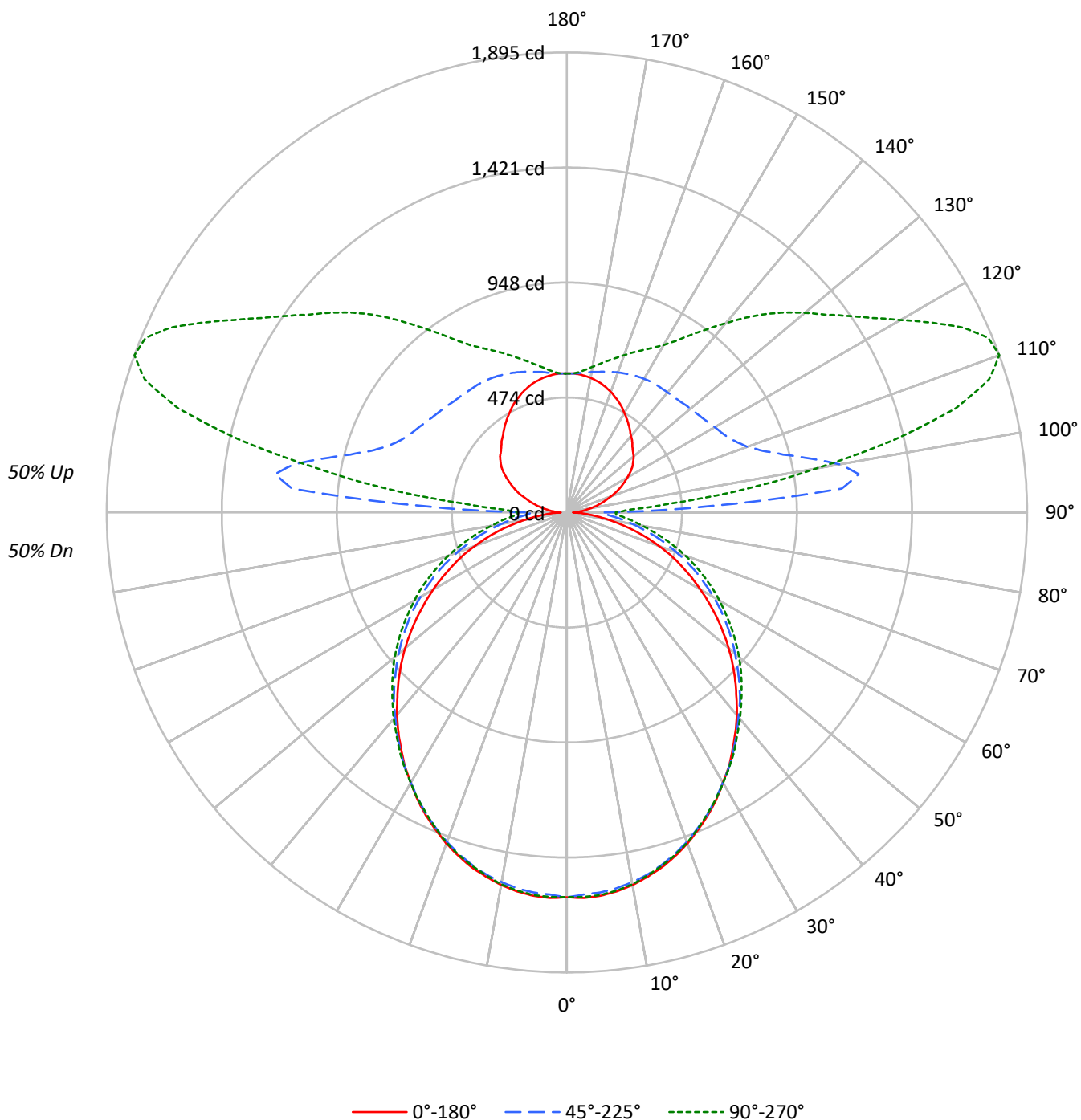
Lumens per Lamp: N/A
Luminaire Lumens: 9221.8 lumens
Efficiency: N/A
Efficacy: 95.8 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 96.3
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					10
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	107	107	107	107	99	99	99	99	83	83	83	69	69	69	56	56	56	56	56	56
1	97	92	88	84	89	85	82	78	72	69	67	60	58	56	48	47	46	46	46	41
2	88	80	74	68	81	74	69	64	63	58	55	52	49	46	42	40	38	38	38	33
3	80	70	63	57	74	65	58	53	55	50	46	46	42	39	37	34	32	32	32	28
4	73	62	54	48	67	57	50	45	49	43	39	41	36	33	33	30	27	27	27	24
5	67	55	47	41	62	51	44	38	43	38	33	36	32	28	30	26	24	24	24	21
6	62	49	41	35	57	46	38	33	39	33	29	33	28	25	27	24	21	21	21	18
7	57	45	36	31	52	41	34	29	35	30	25	30	25	22	25	21	18	18	18	16
8	53	40	33	27	49	38	31	26	32	27	23	27	23	20	23	19	17	17	17	14
9	49	37	29	24	45	34	27	23	30	24	20	25	21	17	21	17	15	15	15	13
10	46	34	26	22	42	32	25	20	27	22	18	23	19	16	19	16	14	14	14	12

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	1.6
10°-20°	425.7	4.6
20°-30°	633.0	6.9
30°-40°	749.7	8.1
40°-50°	775.0	8.4
50°-60°	714.0	7.7
60°-70°	577.2	6.3
70°-80°	386.2	4.2
80°-90°	201.9	2.2
90°-100°	543.7	5.9
100°-110°	978.7	10.6
110°-120°	892.2	9.7
120°-130°	708.5	7.7
130°-140°	557.8	6.0
140°-150°	413.4	4.5
150°-160°	289.1	3.1
160°-170°	170.4	1.8
170°-180°	55.4	0.6
0°-30°	1208.7	13.1
0°-40°	1958.3	21.2
0°-60°	3447.3	37.4
0°-90°	4612.6	50.0
90°-120°	2414.7	26.2
90°-150°	4094.3	44.4
90°-180°	4609.0	50.0
0°-180°	9221.8	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	85	146	187	201	20
95°	58	173	1136	612	430	56
105°	144	221	922	1765	1657	152
115°	242	301	733	1537	1802	239
125°	330	383	680	1213	1411	292
135°	382	457	652	998	1156	296
145°	443	505	642	807	894	277
155°	503	542	626	707	738	232
165°	550	565	600	637	647	155
175°	572	572	576	583	581	54
180°	573	573	573	573	573	

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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°	26.1	84.9	145.9	187.4	200.6
92.5°	39.1	161.5	581.9	278.4	251.6
95°	58.3	173.2	1136.5	611.8	429.9
97.5°	77.5	177.8	1212.2	978.1	745.4
100°	97.9	189.4	1142.1	1316.8	1042.1
102.5°	120.6	205.0	1026.2	1602.3	1376.0
105°	144.5	221.2	922.5	1764.8	1657.4
107.5°	167.1	240.3	844.8	1806.5	1822.8
110°	192.2	260.4	791.2	1753.2	1895.1

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	218.7	280.6	757.3	1650.2	1878.0
115°	242.5	301.3	732.6	1537.1	1802.2
117.5°	264.1	322.6	716.0	1432.4	1693.3
120°	287.2	344.3	702.9	1344.8	1586.1
122.5°	309.9	364.0	690.8	1271.8	1490.6
125°	329.5	383.4	680.0	1212.9	1411.3
127.5°	344.2	403.8	671.5	1160.1	1339.2
130°	359.2	424.6	664.6	1108.4	1279.5
132.5°	369.1	443.0	658.3	1053.1	1219.8
135°	381.8	457.1	652.1	998.5	1155.8
137.5°	398.0	471.6	648.7	943.2	1088.0
140°	410.4	483.7	645.1	892.0	1018.3
142.5°	426.5	493.6	643.2	847.1	953.2
145°	442.7	505.2	642.0	807.4	893.9
147.5°	458.4	515.6	639.7	773.8	838.7
150°	473.4	524.8	636.2	747.1	796.0
152.5°	489.6	534.0	631.6	726.9	764.4
155°	503.4	541.6	625.8	707.2	737.8
157.5°	516.1	549.0	620.1	688.8	713.6
160°	528.8	554.8	614.3	670.3	689.3
162.5°	539.2	560.6	607.4	653.6	667.4
165°	549.6	564.7	600.4	636.8	646.6
167.5°	556.6	567.0	593.5	621.2	627.0
170°	563.5	569.8	587.7	606.2	609.7
172.5°	568.1	571.0	580.8	594.1	593.5
175°	571.6	571.6	576.2	583.1	580.8
177.5°	573.9	571.6	572.7	576.2	572.7
180°	572.7	572.7	572.7	572.7	572.7

(END OF REPORT)