

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: P1028267

Luminaire Tested: S125DIP-B850D1270UB40-4F0-XX-W2A-D

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1028267
REPORT IS A COMBINATION OF REPORTS P1002524 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B850D1270UB40-4F0-XX-W2A-D
Description: Define 5 Direct/Indirect Pendant with 4000K BioUP LEDs {m-DER=0.865} {m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

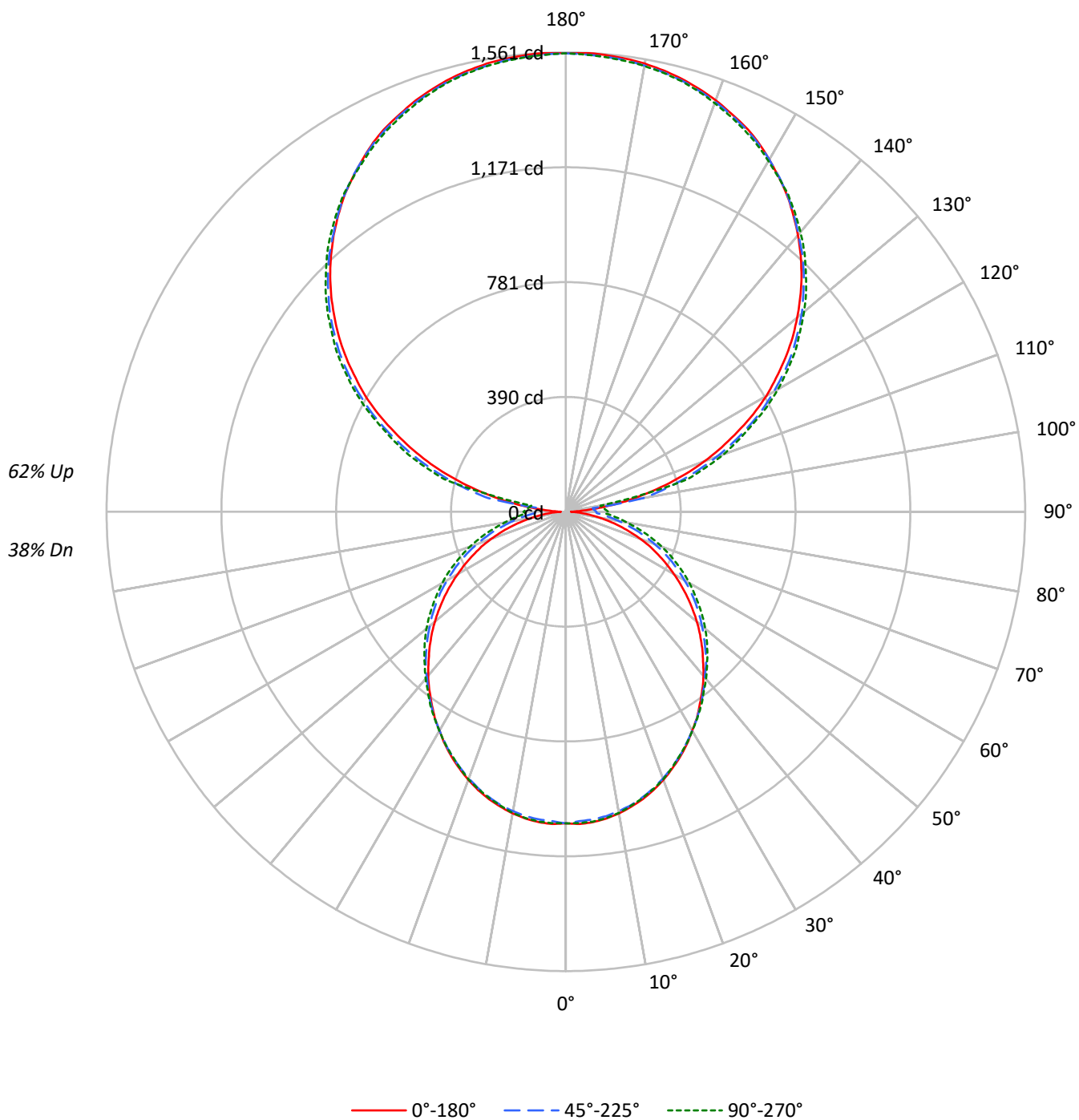
Lumens per Lamp: N/A
Luminaire Lumens: 8068.0 lumens
Efficiency: N/A
Efficacy: 113.8 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 70.9
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	104	104	104	104	95	95	95	95	77	77	77	60	60	60	45	45	45
1	95	90	86	82	86	82	78	75	66	64	62	52	51	49	39	38	37
2	86	78	72	67	78	71	66	61	58	54	51	45	43	40	34	32	31
3	78	69	61	55	71	62	56	51	51	46	42	40	37	34	30	28	26
4	71	61	53	47	64	55	48	43	45	40	36	35	32	29	27	24	22
5	65	54	46	40	59	49	42	37	40	35	31	32	28	25	24	21	19
6	60	48	40	34	54	44	37	32	36	31	27	29	25	22	22	19	17
7	56	43	35	30	50	40	33	28	33	27	23	26	22	19	20	17	15
8	51	39	32	26	47	36	29	24	30	24	21	24	20	17	18	15	13
9	48	36	28	23	43	33	26	22	27	22	18	22	18	15	17	14	12
10	45	33	25	21	40	30	24	19	25	20	16	20	16	14	15	13	11

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6784	6784	6784
5°	6795	6642	6658
10°	6744	6507	6488
15°	6662	6348	6278
20°	6551	6158	6071
25°	6420	5956	5819
30°	6261	5735	5590
35°	6112	5531	5379
40°	5961	5317	5167
45°	5790	5131	4976
50°	5627	4929	4804
55°	5430	4737	4603
60°	5215	4517	4398
65°	4989	4286	4167
70°	4731	3977	3926
75°	4325	3670	3633
80°	3791	3298	3308
85°	3265	3003	3137

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 5790 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.2	1.2
10°-20°	284.4	3.5
20°-30°	422.9	5.2
30°-40°	500.9	6.2
40°-50°	517.8	6.4
50°-60°	477.0	5.9
60°-70°	385.6	4.8
70°-80°	258.0	3.2
80°-90°	135.7	1.7
90°-100°	128.0	1.6
100°-110°	407.0	5.0
110°-120°	670.3	8.3
120°-130°	833.7	10.3
130°-140°	883.3	10.9
140°-150°	822.2	10.2
150°-160°	663.6	8.2
160°-170°	429.2	5.3
170°-180°	148.0	1.8
0°-30°	807.6	10.0
0°-40°	1308.5	16.2
0°-60°	2303.4	28.5
0°-90°	3082.7	38.2
90°-120°	1205.3	14.9
90°-150°	3744.5	46.4
90°-180°	4985.0	61.8
0°-180°	8068.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1059	1059	1059	1059	1059	
5°	1059	1057	1050	1058	1057	100
15°	1011	1012	1005	1011	1007	285
25°	919	922	916	920	914	423
35°	795	802	799	802	802	498
45°	655	666	672	679	680	505
55°	504	520	537	548	552	450
65°	347	371	396	411	415	344
75°	191	218	251	272	277	202
85°	57	91	128	150	159	60
90°	18	60	104	133	144	15
95°	79	103	94	123	130	91
105°	349	370	401	422	428	370
115°	644	657	685	699	698	638
125°	911	918	939	951	952	813
135°	1133	1139	1144	1155	1153	873
145°	1312	1313	1313	1320	1317	820
155°	1444	1437	1439	1442	1433	665
165°	1523	1516	1518	1524	1515	430
175°	1558	1551	1552	1561	1551	148
180°	1558	1558	1558	1558	1558	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1058.8	1058.8	1058.8	1058.8	1058.8
2.5°	1061.9	1059.8	1052.6	1059.8	1058.8
5°	1058.8	1056.7	1049.5	1057.8	1056.7
7.5°	1051.5	1050.5	1043.2	1050.5	1049.5
10°	1041.2	1041.2	1032.9	1040.1	1039.1
12.5°	1026.6	1027.7	1021.4	1026.6	1023.5
15°	1011.1	1012.1	1004.8	1011.1	1006.9
17.5°	991.3	993.4	986.1	991.3	988.2
20°	969.5	971.6	964.3	967.5	967.5
22.5°	944.6	948.8	940.5	944.6	941.5
25°	918.7	921.8	915.6	919.7	914.5
27.5°	890.6	894.8	887.5	890.6	888.6
30°	858.5	864.7	858.5	860.5	859.5
32.5°	829.4	834.6	830.4	832.5	831.5
35°	795.1	802.4	799.3	802.4	802.4
37.5°	761.9	768.2	767.1	771.3	770.2
40°	727.7	736.0	734.9	739.1	741.2
42.5°	690.3	701.7	704.8	710.0	710.0
45°	655.0	666.4	671.6	678.9	679.9
47.5°	618.7	629.1	637.4	647.7	649.8
50°	581.3	592.7	604.1	615.6	618.7
52.5°	541.9	556.4	570.9	583.4	585.5
55°	503.5	520.1	536.7	548.1	552.2
57.5°	464.0	483.7	502.4	514.9	518.0
60°	424.6	445.3	466.1	481.7	484.8
62.5°	386.2	406.9	429.8	447.4	451.6
65°	346.7	370.6	395.5	411.1	415.2
67.5°	310.4	333.2	358.1	376.8	382.0
70°	269.9	293.8	320.8	340.5	346.7
72.5°	230.4	255.4	285.5	307.3	311.4
75°	191.0	218.0	251.2	272.0	277.2
77.5°	152.6	183.7	214.9	237.7	241.9
80°	117.3	148.4	183.7	206.6	210.7
82.5°	85.1	118.3	154.7	176.5	184.8
85°	57.1	91.3	127.7	150.5	158.8
87.5°	36.3	69.5	104.8	128.7	136.0
90°	17.8	60.2	103.6	133.3	144.0
92.5°	36.4	56.1	99.5	128.1	136.5
95°	79.3	102.9	94.3	122.9	130.2
97.5°	136.1	167.9	92.4	116.5	125.0
100°	204.3	229.5	267.4	117.1	118.8
102.5°	273.7	298.0	332.5	355.6	264.8
105°	348.8	370.2	401.3	422.1	428.1
107.5°	426.4	440.9	473.3	495.2	496.8
110°	501.6	514.0	545.4	561.6	570.1

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	573.2	586.0	615.1	629.2	634.2
115°	643.7	656.8	684.9	699.0	698.3
117.5°	717.8	723.0	753.5	764.3	769.1
120°	787.1	789.0	816.4	831.7	832.2
122.5°	847.3	854.0	878.0	892.3	891.7
125°	910.8	917.8	938.6	950.6	952.3
127.5°	970.9	975.7	992.1	1005.4	1002.4
130°	1026.3	1031.1	1046.8	1057.8	1057.2
132.5°	1080.8	1087.7	1094.6	1109.1	1107.5
135°	1132.7	1138.6	1143.6	1154.7	1153.0
137.5°	1181.2	1187.1	1189.0	1201.4	1199.8
140°	1227.5	1229.8	1229.7	1243.5	1240.6
142.5°	1270.2	1270.4	1272.7	1282.0	1279.3
145°	1311.8	1313.1	1313.1	1319.5	1316.6
147.5°	1347.8	1347.8	1348.9	1352.2	1346.2
150°	1382.4	1380.1	1382.4	1384.7	1376.5
152.5°	1415.9	1410.1	1412.4	1414.7	1406.7
155°	1443.6	1436.7	1439.0	1442.5	1433.2
157.5°	1465.6	1462.1	1462.1	1465.6	1456.3
160°	1488.7	1481.7	1482.9	1487.5	1478.3
162.5°	1507.1	1500.2	1501.4	1508.3	1497.9
165°	1523.3	1516.4	1517.5	1524.5	1515.2
167.5°	1536.0	1529.1	1530.2	1538.3	1527.9
170°	1546.4	1538.3	1539.5	1548.7	1538.3
172.5°	1553.3	1545.2	1547.6	1555.6	1545.2
175°	1557.9	1551.0	1552.2	1561.4	1551.0
177.5°	1561.4	1554.5	1555.6	1563.7	1554.5
180°	1557.9	1557.9	1557.9	1557.9	1557.9

(END OF REPORT)