

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: P1027826

Luminaire Tested: S125DIP-B375D1270UB40-4F0-XX-W2A-F

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1027826
REPORT IS A COMBINATION OF REPORTS P1001927 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B375D1270UB40-4F0-XX-W2A-F
Description: Define 5 Direct/Indirect Pendant with 4000K BioUP LEDs {m-DER=0.865} {m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

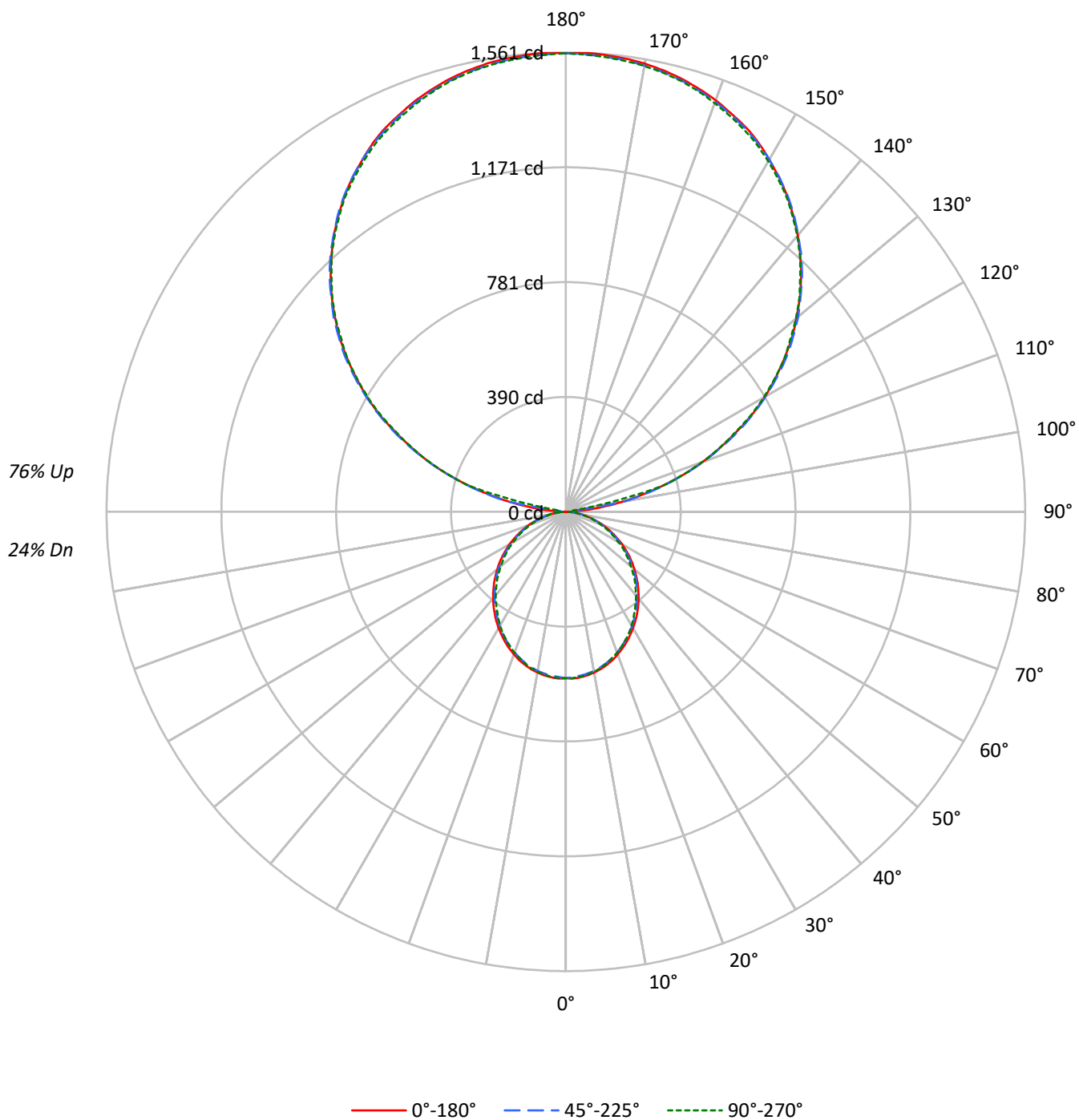
Lumens per Lamp: N/A
Luminaire Lumens: 6260.1 lumens
Efficiency: N/A
Efficacy: 130.4 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 48
Input Voltage (V):
Input Current (A_{in}): 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	101	101	101	101	90	90	90	90	69	69	69	49	49	49	32	32	32
1	92	88	84	81	81	78	75	72	60	58	56	43	42	41	28	27	27
2	84	76	71	66	74	68	63	59	52	49	46	38	36	34	25	23	22
3	76	67	60	55	67	60	54	49	46	42	39	34	31	29	22	20	19
4	70	59	52	46	62	53	47	42	41	36	33	30	27	25	19	18	16
5	64	53	45	39	56	47	40	35	36	32	28	27	24	21	17	16	14
6	59	47	39	34	52	42	35	31	33	28	24	24	21	18	16	14	12
7	54	42	35	29	48	38	31	27	30	25	21	22	19	16	14	13	11
8	50	38	31	26	44	34	28	23	27	22	19	20	17	14	13	11	10
9	46	35	28	23	41	31	25	21	24	20	17	18	15	13	12	10	9
10	43	32	25	20	38	28	22	18	22	18	15	17	14	11	11	9	8

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3624	3624	3624
5°	3624	3540	3546
10°	3594	3458	3447
15°	3547	3361	3331
20°	3482	3249	3198
25°	3414	3126	3055
30°	3331	2998	2904
35°	3243	2864	2736
40°	3152	2722	2586
45°	3053	2585	2426
50°	2945	2427	2241
55°	2838	2255	2070
60°	2709	2073	1872
65°	2555	1862	1666
70°	2400	1620	1429
75°	2137	1334	1155
80°	1823	996	849
85°	1407	590	468

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3053 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.4	0.9
10°-20°	150.7	2.4
20°-30°	222.5	3.6
30°-40°	259.6	4.1
40°-50°	260.8	4.2
50°-60°	228.9	3.7
60°-70°	170.5	2.7
70°-80°	97.4	1.6
80°-90°	30.4	0.5
90°-100°	52.9	0.8
100°-110°	351.6	5.6
110°-120°	633.2	10.1
120°-130°	812.7	13.0
130°-140°	874.1	14.0
140°-150°	820.4	13.1
150°-160°	663.6	10.6
160°-170°	429.2	6.9
170°-180°	148.0	2.4
0°-30°	426.7	6.8
0°-40°	686.3	11.0
0°-60°	1176.0	18.8
0°-90°	1474.3	23.6
90°-120°	1037.7	16.6
90°-150°	3544.9	56.6
90°-180°	4786.0	76.5
0°-180°	6260.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	566	566	566	566	566	
5°	565	564	559	563	563	54
15°	538	537	532	534	534	152
25°	489	486	480	481	480	225
35°	422	420	414	412	408	264
45°	345	344	338	333	332	266
55°	263	262	256	252	248	235
65°	178	177	172	168	166	176
75°	94	94	91	90	88	100
85°	25	25	25	25	24	27
90°	1	10	18	24	28	5
95°	66	62	18	24	24	81
105°	340	344	344	344	343	360
115°	638	643	644	640	633	632
125°	907	915	915	910	907	810
135°	1131	1138	1135	1133	1126	872
145°	1311	1313	1313	1314	1307	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°	565.6	565.6	565.6	565.6	565.6
2.5°	567.3	566.0	561.5	566.0	565.6
5°	564.7	563.8	559.3	563.3	562.9
7.5°	560.6	559.7	554.8	558.8	558.4
10°	554.8	553.9	549.0	552.6	552.1
12.5°	547.7	545.9	541.4	544.1	544.1
15°	538.3	536.9	532.0	534.2	534.2
17.5°	528.4	526.2	521.3	523.9	521.7
20°	515.4	514.5	508.7	511.9	509.6
22.5°	502.5	500.7	495.3	497.1	495.8
25°	488.6	486.4	480.5	481.4	480.1
27.5°	472.5	471.1	465.3	465.8	464.4
30°	456.8	455.5	448.8	447.9	446.5
32.5°	439.8	437.6	431.8	430.0	427.3
35°	421.9	420.1	413.9	411.6	408.1
37.5°	403.6	401.3	395.5	392.4	390.2
40°	384.8	382.6	376.3	372.3	370.9
42.5°	364.7	362.9	356.6	353.0	350.8
45°	345.4	343.6	338.3	332.9	331.5
47.5°	324.4	324.8	318.1	312.8	309.6
50°	304.3	302.9	297.5	291.7	288.6
52.5°	283.7	282.8	277.0	272.0	268.5
55°	263.1	261.7	255.5	251.5	248.3
57.5°	241.2	240.7	235.3	230.0	228.6
60°	220.6	218.8	213.9	209.4	206.3
62.5°	199.1	197.8	193.7	188.8	186.6
65°	177.6	176.7	171.8	167.8	166.0
67.5°	156.6	154.8	151.2	147.7	146.8
70°	136.9	134.7	130.7	128.0	126.2
72.5°	115.4	114.1	111.9	108.7	106.9
75°	94.4	93.5	91.3	89.9	88.1
77.5°	74.7	74.3	72.9	72.0	70.7
80°	56.4	56.4	55.5	55.0	54.1
82.5°	40.3	39.4	39.4	38.5	38.5
85°	24.6	25.1	25.1	24.6	23.7
87.5°	12.1	12.1	11.6	11.6	10.7
90°	1.2	10.4	18.5	24.3	27.7
92.5°	21.9	11.5	18.5	24.3	25.4
95°	65.8	62.4	18.5	24.3	24.3
97.5°	123.6	130.5	20.8	23.1	24.3
100°	192.9	196.3	201.0	28.9	24.3
102.5°	263.3	267.9	270.2	272.6	175.5
105°	339.5	344.2	344.2	344.2	343.0
107.5°	418.1	418.1	420.4	421.5	416.9
110°	494.3	494.3	496.6	493.1	494.3

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	565.9	569.4	570.5	565.9	563.6
115°	637.5	643.3	644.4	639.8	632.9
117.5°	712.6	712.6	717.2	710.3	707.9
120°	781.9	780.7	784.2	781.9	776.1
122.5°	843.1	848.8	850.0	847.7	840.8
125°	906.6	914.7	914.7	910.1	906.6
127.5°	967.8	973.6	972.4	970.1	960.9
130°	1023.2	1029.0	1030.2	1026.7	1020.9
132.5°	1078.7	1085.6	1082.1	1082.1	1076.4
135°	1130.6	1137.6	1135.3	1132.9	1126.0
137.5°	1179.1	1186.1	1183.8	1183.8	1178.0
140°	1226.5	1228.8	1227.6	1230.0	1223.0
142.5°	1269.2	1270.4	1272.7	1272.7	1265.8
145°	1310.8	1313.1	1313.1	1314.3	1307.3
147.5°	1347.8	1347.8	1348.9	1350.1	1342.0
150°	1382.4	1380.1	1382.4	1384.7	1375.5
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)