

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: NEO-RAY

Report Number: P332282-830

Luminaire Tested: **S123RDIP-S560D805U830-4F0-1E-UDD-A**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332282-830
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-5,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S123RDIP-S560D805U830-4F0-1E-UDD-A
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 560 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 805 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5127.1 lumens
Efficiency: N/A
Efficacy: 133.5 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.36
Luminous Opening: Rectangular (W 4' x L: 0.25' x H: 0')
CIE Type: General Diffuse

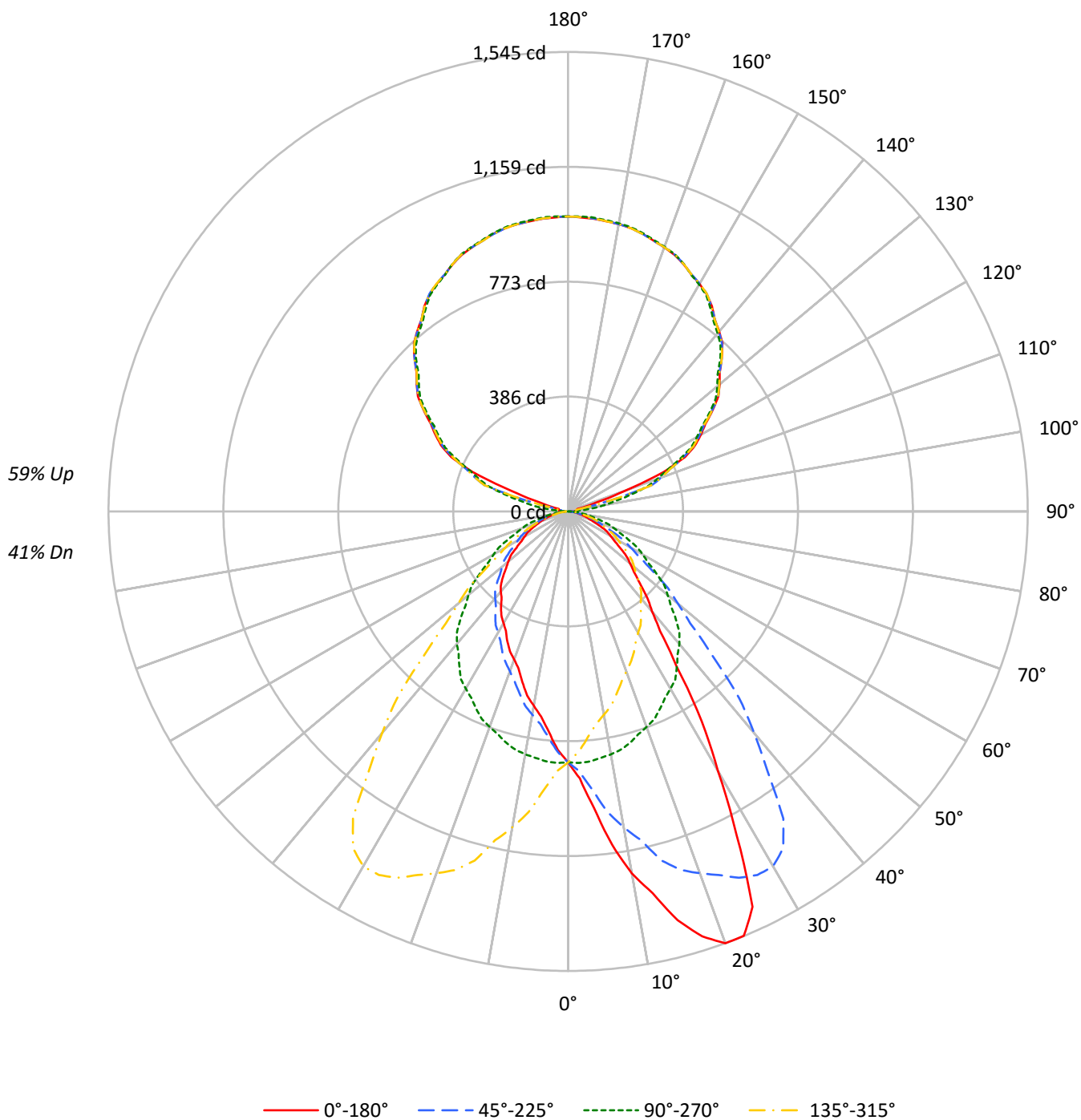
Input Watts (W): 38.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	105	105	105	105	96	96	96	96	78	78	78	62	62	62	48	48	48
1	96	92	88	85	88	84	81	78	69	67	65	56	54	53	43	42	41
2	88	81	75	70	80	74	69	65	61	58	55	49	47	45	38	37	36
3	81	72	65	59	73	66	60	55	54	50	47	44	41	39	34	32	31
4	74	64	56	50	67	58	52	47	49	44	40	40	36	33	31	29	27
5	68	57	49	43	62	52	46	40	44	39	35	36	32	29	28	26	24
6	63	51	43	38	57	47	40	35	39	34	30	32	29	26	26	23	

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	82.9	1.6
10°-20°	259.1	5.1
20°-30°	407.0	7.9
30°-40°	424.7	8.3
40°-50°	363.4	7.1
50°-60°	277.0	5.4
60°-70°	177.6	3.5
70°-80°	85.4	1.7
80°-90°	25.4	0.5
90°-100°	36.1	0.7
100°-110°	171.9	3.4
110°-120°	412.8	8.1
120°-130°	525.7	10.3
130°-140°	561.7	11.0
140°-150°	525.2	10.2
150°-160°	423.7	8.3
160°-170°	273.4	5.3
170°-180°	94.2	1.8
0°-30°	749.1	14.6
0°-40°	1173.7	22.9
0°-60°	1814.2	35.4
0°-90°	2102.5	41.0
90°-120°	620.7	12.1
90°-150°	2233.3	43.6
90°-180°	3025.0	59.0
0°-180°	5127.1	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	843	843	843	843	843	
5°	1002	844	743	844	1002	103
15°	1423	80				

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	843.3	843.3	843.3	843.3	843.3	843.3	843.3	843.3	843.3	843.3	843.3
2.5°	898.1	899.4	895.6	895.0	890.7	889.6	889.6	883.4	879.7	874.8	871.9
5°	1001.5	1007.2	1004.4	997.9	987.0	984.5	977.6	966.8	954.5	939.3	932.2
7.5°	1130.4	1138.3	1135.2	1125.2	1113.9	1104.7	1085.3	1067.3	1042.2	1020.1	1001.2
10°	1236.1	1227.8	1221.3	1211.5	1201.1	1184.1	1163.9	1136.1	1104.0	1078.7	1050.6
12.5°	1315.2	1313.9	1305.6	1295.6	1280.8	1264.7	1239.8	1206.0	1168.7	1132.1	1099.9
15°	1423.1	1425.3	1419.8	1409.4	1388.5	1359.9	1322.4	1308.3	1254.9	1215.1	1175.4
17.5°	1497.8	1497.3	1496.6	1482.1	1460.8	1440.4	1405.6	1368.6	13		

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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	347.7	352.6	357.5	362.5	367.4	369.9	369.8	369.7	369.6	369.5	367.7
115°	433.3	432.6	432.0	431.3	430.6	429.5	427.9	426.2	424.6	423.0	421.5
117.5°	481.4	481.2	481.1	481.0	480.8	480.0	478.8	477.5	476.2	474.9	474.1
120°	514.3	514.3	514.3	514.3	514.3	513.7	512.4	511.0	509.7	508.4	507.9
122.5°	546.8	546.7	546.5	546.4	546.2	545.7	544.8	543.8	543.0	542.1	541.4
125°	592.5	592.1	591.8	591.4	591.2	590.8	590.5	590.1	589.8	589.5	588.8
127.5°	636.4	636.7	637.1	637.3	637.6	637.5	637.1	636.5	636.0	635.5	634.7
130°	664.7	665.0	665.3	665.6	666.0	665.8	665.2	664.5	663.8	663.2	662.5
132.5°	690.6	691.1	691.5	692.0	692.4	692.3	691.6	691.0			

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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	843.3	843.3	843.3	843.3	843.3	843.3	843.3	843.3	843.3	843.3	843.3
2.5°	870.7	869.9	865.8	861.2	855.2	851.1	847.9	846.2	841.0	834.6	830.3
5°	924.5	913.7	902.2	888.1	875.1	861.8	853.5	843.7	831.8	818.4	809.0
7.5°	982.1	960.9	938.0	914.5	891.1	870.2	851.7	835.8	816.9	797.8	784.3
10°	1026.3	995.3	963.2	930.3	900.3	872.2	850.6	829.2	806.5	784.5	767.9
12.5°	1066.5	1025.7	988.6	948.2	909.9	876.3	845.1	820.0	792.7	769.2	750.3
15°	1117.3	1075.4	1030.7	969.3	918.4	875.8	837.9	805.0	771.8	743.0	724.5
17.5°	1164.8	1101.8	1041.7	990.4	924.4	871.1	824.8	785.5	749.1	718.5	695

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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	365.9	364.1	362.2	360.8	359.6	358.4	357.2	356.1	357.2	358.4	359.6
115°	420.0	418.6	417.1	415.8	414.9	413.9	412.9	411.9	412.9	413.9	414.9
117.5°	473.3	472.6	471.8	470.8	469.7	468.4	467.2	466.0	467.2	468.4	469.7
120°	507.5	507.0	506.5	505.5	504.0	502.6	501.1	499.6	501.1	502.6	504.0
122.5°	540.8	540.2	539.5	538.7	537.4	536.2	535.0	533.8	535.0	536.2	537.4
125°	588.1	587.6	586.9	585.9	584.6	583.2	581.9	580.7	581.9	583.2	584.6
127.5°	634.0	633.1	632.4	631.3	630.0	628.7	627.4	626.0	627.4	628.7	630.0
130°	661.9	661.2	660.5	659.6	658.3	657.0	655.6	654.3	655.6	657.0	658.3
132.5°	688.6	688.2	687.6								

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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	843.3	843.3	843.3	843.3	843.3	843.3	843.3	843.3	843.3	843.3	843.3
2.5°	828.9	825.1	822.6	816.7	813.0	809.0	804.9	807.5	807.2	806.9	806.9
5°	801.1	792.8	785.2	775.4	769.3	761.8	755.9	755.3	756.7	751.6	748.8
7.5°	773.5	762.1	751.4	740.6	729.2	720.1	714.4	711.8	708.1	705.0	701.7
10°	754.1	740.8	730.3	717.0	704.7	693.9	687.0	682.3	679.8	677.2	672.6
12.5°	734.2	721.1	707.8	692.7	681.0	668.5	663.4	658.1	653.2	650.4	643.9
15°	705.0	688.1	674.0	658.1	645.2	632.8	625.7	615.2	613.7	610.1	603.6
17.5°	675.8	657.4	638.0	626.2	611.5						

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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	360.8	362.2	364.1	365.9	367.7	369.5	369.6	369.7	369.8	369.9	367.4
115°	415.8	417.1	418.6	420.0	421.5	423.0	424.6	426.2	427.9	429.5	430.6
117.5°	470.8	471.8	472.6	473.3	474.1	474.9	476.2	477.5	478.8	480.0	480.8
120°	505.5	506.5	507.0	507.5	507.9	508.4	509.7	511.0	512.4	513.7	514.3
122.5°	538.7	539.5	540.2	540.8	541.4	542.1	543.0	543.8	544.8	545.7	546.2
125°	585.9	586.9	587.6	588.1	588.8	589.5	589.8				

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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	843.3	843.3	843.3	843.3	843.3	843.3	843.3	843.3	843.3	843.3	843.3
2.5°	803.4	803.1	803.4	802.3	803.4	803.1	803.4	806.9	806.9	807.2	807.5
5°	747.6	747.2	746.2	743.0	746.2	747.2	747.6	748.8	751.6	756.7	755.3
7.5°	698.9	698.4	695.2	695.3	695.2	698.4	698.9	701.7	705.0	708.1	711.8
10°	670.1	670.4	666.1	663.5	666.1	670.4	670.1	672.6	677.2	679.8	682.3
12.5°	642.1	640.4	636.9	634.0	636.9	640.4					

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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	362.5	357.5	352.6	347.7	352.6	357.5	362.5	367.4	369.9	369.8	369.7
115°	431.3	432.0	432.6	433.3	432.6	432.0	431.3	430.6	429.5	427.9	426.2
117.5°	481.0	481.1	481.2	481.4	481.2	481.1	481.0	480.8	480.0	478.8	477.5
120°	514.3	514.3	514.3	514.3	514.3	514.3	514.3	514.3	513.7	512.4	511.0
122.5°	546.4	546.5	546.7	546.8	546.7	546.5	546.4	546.2	54		

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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	843.3	843.3	843.3	843.3	843.3	843.3	843.3	843.3	843.3	843.3	843.3
2.5°	804.9	809.0	813.0	816.7	822.6	825.1	828.9	830.3	834.6	841.0	846.2
5°	755.9	761.8	769.3	775.4	785.2	792.8	801.1	809.0	818.4	831.8	843.7
7.5°	714.4	720.1	729.2	740.6	751.4	762.1	773.5	784.3	797.8	816.9	835.8
10°	687.0	693.9	704.7	71							

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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	369.6	369.5	367.7	365.9	364.1	362.2	360.8	359.6	358.4	357.2	356.1
115°	424.6	423.0	421.5	420.0	418.6	417.1	415.8	414.9	413.9	412.9	411.9
117.5°	476.2	474.9	474.1	473.3	472.6	471.8	470.8	469.7	468.4	467.2	466.0
120°	509.7	508.4	507.9	507.5	507.0	506.5	505.5	504.0	502.6	501.1	499.6
122.5°	543.0	542.1	541.4								

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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	843.3	843.3	843.3	843.3	843.3	843.3	843.3	843.3	843.3	843.3	843.3
2.5°	847.9	851.1	855.2	861.2	865.8	869.9	870.7	871.9	874.8	879.7	883.4
5°	853.5	861.8	875.1	888.1	902.2	913.7	924.5	932.2	939.3	954.5	

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CATALOG NUMBER: S123RDIP-S560D805U830-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	357.2	358.4	359.6	360.8	362.2	364.1	365.9	367.7	369.5	369.6	369.7
115°	412.9	413.9	414.9	415.8	417.1	418.6	420.0	421.5	423.0	424.6	426.2
117.5°	467.2	468.4	469.7	470.8	471.8	472.6	473.3	474.1	474		

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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	843.3	843.3	843.3	843.3	843.3	843.3	843.3
2.5°	889.6	889.6	890.7	895.0	895.6	899.4	898.1
5°	977.6	984.5	987.0	997.9	1004.4	1007.2	1001.5
7.5°	1085.3	1104.7	1113.9	1125.2	1135.2	1138.3	1130.4
10°	1163.9	1184.1	1201.1	121			

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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	369.8	369.9	367.4	362.5	357.5	352.6	347.7
115°	427.9	429.5	430.6	431.3	432.0	432.6	433.3
117.5°	478.8	480.0	480.8	481.0	481.1	481	